# In The Matter Of:

United States vs.
PFC Bradley E. Manning

Vol. 10
June 26, 2013
UNOFFICIAL DRAFT - 6/26/13 Afternoon Session

Provided by Freedom of the Press Foundation

Min-U-Script® with Word Index

## **UNOFFICIAL DRAFT - 6/26/13 Afternoon Session**

		1
1	VOLUME X	
2	IN THE UNITED STATES ARMY	
3		
4	UNITED STATES	
5	vs.	
6	MANNING, Bradley E., PFC COURT-MARTIAL	
7	U.S. Army, xxx-xx-9504	
8	Headquarters and Headquarters Company,	
9	U.S. Army Garrison,	
10	Joint Base Myer-Henderson Hall,	
11	Fort Myer, VA 22211	
12	/	
13		
14		
15	The Hearing in the above-entitled matter was	
16	held on Wednesday, June 26, 2013, commencing at 1:22 p.m.,	,
17	at Fort Meade, Maryland, before the Honorable Colonel	
18	Denise Lind, Judge.	
19		
20		
21		

### 1 DISCLAIMER

This transcript was made by a court reporter who is not the official Government reporter, was not permitted to be in the actual courtroom where the proceedings took place, but in a media room listening to and watching live audio/video feed, not permitted to make an audio backup recording for editing purposes, and not having the ability to control the proceedings in order to produce an accurate verbatim transcript.

This unedited, uncertified draft transcript may contain court reporting outlines that are not translated, notes made by the reporter for editing purposes, misspelled terms and names, word combinations that do not make sense, and missing testimony or colloquy due to being inaudible to the reporter.

## **UNOFFICIAL DRAFT - 6/26/13 Afternoon Session**

			3
1	APPEARANCES:		
2			
3	ON	BEHALF OF THE GOVERNMENT:	
4		MAJOR ASHDEN FEIN	
5		CAPTAIN JOSEPH MORROW	
6		CAPTAIN ANGEL OVERGAARD	
7		CAPTAIN HUNTER WHYTE	
8		CAPTAIN ALEXANDER van ELLEN	
9			
10			
11			
12	ON	BEHALF OF THE ACCUSED:	
13		DAVID COOMBS	
14		MAJOR THOMAS HURLEY	
15		CAPTAIN JOSHUA TOOMAN	
16			
17			
18			
19			
20			
21			

## **UNOFFICIAL DRAFT - 6/26/13 Afternoon Session**

	<u> </u>			4
1		INDEX		
2		June 12, 2013		
3				
4				
5	WITNESS:	SPECIAL AGENT DAVID SHAVE	ER Page	
6	CONTINUED	REDIRECT	8, 55	
7	CONTINUED	RECROSS	44, 55	
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				

Your Honor, rather than reading the table that is provided, the remaining portion actually describes the information in the table. So I will skip that portion.

18

19

20

21

```
(Continues reading stipulation.)
1
 2
                THE COURT: Can I interrupt you for just a
3
    second? The copy that the Court has is Prosecution
    Exhibit 152.
4
                Was there a change made?
5
6
                MR. FEIN: Yes, ma'am. That is what was
7
    reflected prior to the lunch recess. This is page
    3 and that, Prosecution Exhibit 152, was changed with
8
    concurrence of the defense to Prosecution Exhibit 164.
    So the court's copy is -- the court has a newer copy of
10
11
    the actual step --
12
                THE COURT: We're supposed to be looking at
13
    164?
14
                MR. FEIN: Yes, ma'am.
15
                THE COURT: I'm looking at prosecution
    Exhibit 149 which was the old one.
16
17
                MR. FEIN: No, ma'am. Prosecution
18
    Exhibit 149 is the stipulation of expected testimony
    that's been admitted. That stipulation, Prosecution
19
20
    Exhibit 149, was amended prior to going on the lunch
21
    recess. Right there in that paragraph on top of page
```

```
7
```

```
3, the 152 is lined out and changed to 164.
1
2
                THE COURT: All right. I see a set of
3
    initials next to that. Major Hurley, is that your
    initials and PFC Manning's?
4
                MR. HURLEY: Yes, ma'am.
5
6
                MR. FEIN: So you all agree with the
7
    change?
8
                MR. HURLEY: Yes, ma'am.
9
                MR. FEIN: 152 in that paragraph should be
    slashed through and it should be changed to 164.
10
                THE COURT: Got it.
11
                MR. FEIN: (Continues reading stipulation.)
12
13
                Your Honor, the United States moves to
    admit what has been marked as Prosecution Exhibit
14
    152 and 164 for identification as Prosecution Exhibit
15
    152 and 164.
16
17
                MR. TOOMAN: No objection, ma'am.
18
                THE COURT: May I see it, please?
19
                (Pause.)
20
                You have Prosecution Exhibit 152 for
    identification and 164 for identification are admitted.
21
```

```
MR. FEIN:
                            The United States calls Special
 1
 2
    Agent David Shaver. You are still under oath.
 3
                 THE WITNESS: Yes, sir.
 4
    Whereupon,
 5
                          DAVID SHAVER,
    previously called as a witness, having been first duly
 6
 7
    sworn to tell the truth, the whole truth, and nothing
    but the truth, was examined further and testified as
 8
    follows:
                EXAMINATION BY MR. MORROW:
10
11
                Special Agent Shaver, you testified earlier
12
    that you examined Centaur logs as a part of this case;
13
    is that correct?
14
                Yes, sir.
          Α
15
                And in your own words, what is Centaur?
                Centaur is -- they are logs filed that are
16
          Α
    captured on netflow information.
17
18
          O
                What is netflow?
                Sir, that's the traffic between two
19
20
    computers. It will capture things like source
21
    computer, destination computer, dates, times, amount of
```

Yes, for Centaur.

21

Q

We looked at the log files pertaining to 1 2 the .22 and .40 computers from November 2009 until 3 May 2010. And the use of the log files for those two 4 Q IP addresses, what did they actually capture? 5 6 They were capturing things -- again, dates 7 and times, the protocols used to communicate. What was on the other side? Maybe that's a 8 Q better question. 10 What does Centaur capture? 11 It captures an IP address. It captures IP 12 addresses, things like that. IP addresses, dates and 13 times. 14 When you say that -- but it captures a Q 15 connection; is that correct? 16 Α Yes, sir. 17 And what does it capture the connection of? 18 Transfer of data. There's data transferred. 19 20 Between what? Q 21 Α Two computers, computer and a server.

```
So if a computer is on the other side, that
1
          Q
    computer can be a server as well?
2
 3
          Α
                Yes, sir.
                Now, when you're trying to determine what
 4
          Q
    computer is on the other side so you have the source IP
5
6
    which is .22 or .40 and you're trying to determine what
7
    is on the other side, so whatever computer the .22 or
    .40 communicate with, how do you figure that out?
8
          Α
                There's a few ways. I basically -- because
    it's an IP, I can resolve the IP to a more friendly
10
11
    name.
                What do you mean by a friendly name?
12
          0
13
                For example, CNN. You can remember CNN.
14
    That's easy to remember. But it's actually an IP
15
    address of a computer and an IP address may be
    something like 123.123.12. You won't remember that.
16
    So it's called domain name service, DNS.
17
18
    resolves a friendly name to an IP and you can reverse
    that as well, figure out who the IP belongs to.
19
20
                And the domain name service, where is that
          Q
    tool located?
21
```

Sir, that's part of the -- it's on the 1 2 SIPRnet. It's just part of the internal classified 3 network. What was your investigative plan for the 4 Q Centaur logs you looked at? 5 6 Looked for patterns. Because it shows data transferred. I was kind of curious to see which 7 computers were -- .22 and .40, who were they 8 communicating to the most. 10 Q And from the log files came to you for analysis, in what form were they in? 11 They were in text files, log files. 12 Α 13 Q What did you do with the text files? I put them in Excel for easier review. 14 Α 15 And when you put them in Excel, did you alter the information in any way? 16 17 Α No, sir. 18 Q Now, once you had the information in the Excel spreadsheet, what did you do? 19 I then started filtering. The first one I 20 Α 21 filtered was, like, amount of data transferred and I

```
just wanted to figure out, again, whose computers were
1
2
    communicated to the most.
 3
          O
                I'm showing you what's been marked for
    prosecution Exhibit 160 for identification.
4
    showing defense counsel.
5
                Agent Shaver, I'm handing you what's been
6
    marked as prosecution Exhibit 160 for identification.
7
                Do you recognize that document?
8
                Yes, sir. I do.
          Α
                What is it?
10
          Q
                This is a document I created. It's a
11
12
    summary of a small segment, actually, of the log file
    for Centaur that -- where I have the names, other
13
    remote servers and the number of connections and data
14
15
    transferred.
                MR. MORROW: Permission to publish, Your
16
17
    Honor.
18
                We'll go through this up here and follow
    along. So I see ten numbers on the left.
19
20
                What are those numbers?
21
          Α
                Sir, based off the amount of data transfer,
```

the column on the right, that's where I sorted on the 1 2 amount of data transferred. So these ten are the top 3 ten remote computers, the 22 and 40, the Centaur captured them communicating with. 4 So, really, it's ordered by what's on the 5 Q very far right? 6 7 Α Correct. Okay. And I see a number of connections. 8 9 What does that mean? 10 That is just that. It's a connection. The Α 11 Centaur logs captured a connection between the two 12 computers, the 22 and 40, and these computers. 13 Now, with respect to line 4, I see the remote IP is CIDNE Afghanistan. 14 15 Do you recall the date range of those connections of that data being transfer? 16 17 Yes, sir. That was January 2010, early 18 January. I think it was January 2 to January 7th. 19 And what about the Department of State? 20 Yes, sir. There are a lot of connections. Α 21 This one captured over 106,000 connections and

transferred 9.9 gigs of data. 1 2 MR. MORROW: Now, based on your review, 3 Your Honor, the government moves to amount of data prosecution Exhibit 165 for identification. 4 THE COURT: Prosecution Exhibit 165 for 5 identification is admitted. 6 BY MR. MORROW: 7 Based on your review of the entirety of the 8 0 Centaur logs, were the -- did you notice any activity 10 that was missing in the logs? 11 Yes, sir. There were several dates that 12 there was no activity at all. And can you explain what no activity means 13 Q 14 to you? 15 Α Again, these computers are still -- they're on a windows domain and, as such, they need to 16 regularly check in. They need to check in with their 17 18 timeserver, antivirus server, update server, things like that. There are several periods of time where 19 20 there was connectivity -- there was no dates at all. 21 Q I show you what's been marked as

```
prosecution 161 for identification.
1
 2
                THE COURT: Yes.
 3
          O
                I'm showing the witness what is marked
 4
    Prosecution 161 for identification.
 5
                Do you recognize that document?
                Yes, sir.
 6
          Α
                And what is it?
 7
          0
                This is a document I created to
 8
          Α
    demonstrate -- to show the dates present in the Centaur
10
    logs and the dates that are missing from the Centaur
11
    logs.
12
          0
                Now, when you say a date is present in the
13
    Centaur logs, what do you mean by that?
                 That means that on that date there's some
14
          Α
15
    kind of network activity, something.
16
          Q
                And when you say dates missing, what does
17
    that mean?
18
          Α
                There was no activity at all.
19
                MR. MORROW: Permission to publish,
20
    Your Honor.
                THE COURT: Go ahead.
21
```

```
(Bench conference.)
 1
 2
    BY MR MORROW:
 3
          O
                Agent Shaver, I'm going to show you page
    1 first and I want to talk about some of the larger
 4
    gaps you observed.
 5
 6
                What was the first large gap you observed
 7
    in the Centaur logs?
                November, November 20th through
 8
          Α
    November 30th, actually.
10
          Q
                Okay. What was the second large gap you
11
    observed in the log?
12
                 There is a large gap in December as well,
13
    December 6th through the -- basically, it looks like
    the end of December.
14
15
          Q
                Okay. I'm going to show you the bottom of
16
    that page, actually. Again, was there a large gap -- I
17
    know you can't see the very top here, the "dates
18
    missing" column, but was there a large gap in April as
19
    well?
20
                Yes, sir.
          Α
21
          Q
                What was the large gap there?
```

On this page it shows April 2 through 1 2 April 9th on this page. 3 O I'm going to show you page 2. Again, it looks like there was sort of a large gap in April as 4 well towards the middle to the end of the month; is 5 that correct? 6 7 Α Yes, sir. MR. MORROW: Your Honor, the prosecution 8 moves to admit Exhibit 161 for identification into 10 evidence. MR. COOMBS: No objection, Your Honor. 11 THE COURT: Prosecution Exhibit 161 for 12 identification is admitted. 13 BY MR. MORROW: 14 15 Q Now, I want to transition to logs collected from the Department of State. 16 Who examined the logs collected from the 17 18 Department of State for CCIU? 19 I did, sir. Α 20 And how many sets of logs were collected? Q 21 Α There were two.

And what were the logs? 1 Q 2 One was a set of logs from a firewall and 3 another one was from a web server hosting the Department of State cables. 4 What is a firewall? 5 Q Sir, that's either a physical device for a 6 7 piece of software that limits traffic, allows some traffic in while disallowing others. 8 9 Q Why organizations use firewalls generally? 10 It's for security measures, to make sure certain computers are authorized to communicate from 11 12 certain ports such as like a web server, port 80. 13 it's only allowed port 80 in instead of others. And what kind of information do firewall 14 0 15 logs capture? 16 Α Generally, times and dates, IP address, 17 connecting in where they're going, things like that. 18 Q Does it capture, you know, like, data transferred, what files were transferred, anything like 19 20 that? 21 Α It could.

It could? But what about the firewall logs 1 0 2 collected in this case? 3 Α It did not. It just showed there's a connection between the remote computer -- in this case, 4 it was about .22 or .40 and the Department of State 5 6 server. 7 Now, in what form did the firewall logs come to you in this case? 8 9 Α They came to me in PDF. 10 Q And what did you do with those PDFs? I converted them to text and then I 11 12 imported them into Excel for easy review. 13 Q Once you got them in Excel, I assume you examined those logs at that point; is that correct? 14 15 Α Yes, sir. Did the firewall logs demonstrate any 16 17 pattern that you could see? 18 Α There were patterns, sir. Again, I could not tell you what was transferred, but I can tell you 19 20 like number of connections per day. 21 Q I'm showing you what is marked as

```
Prosecution Exhibit 159 for identification.
 1
 2
    handing the witness what's been marked as Prosecution
    Exhibit 159 for identification.
 3
                Do you recognize that document?
 4
          Α
                Yes, sir.
 5
                What is it?
 6
                This is a document I created. It shows the
 7
    summary of the source IP, either .40 or .22, the date
 8
 9
    and the number of connections, the log entries.
                Number of connections with what?
10
          Q
11
          Α
                The department server.
                The server or the firewall?
12
          O
13
                This is the firewall capturing. So it's
14
    passing through.
15
                MR. MORROW: Permission to publish.
16
                THE COURT: Go ahead.
                 (Bench conference.)
17
18
    BY MR. MORROW:
19
                Agent Shaver, let's go through this.
          Q
20
                What was the large -- the pattern that you
    observed in the firewall?
21
```

```
From the beginning, it was very few
 1
 2
    connections and then until 30, March 2010 the IP
 3
    .22 downloaded -- or excuse me -- connected.
    apologize, sir. There were 149,000 connections.
 4
                On 30, March from .22?
 5
          Q
 6
                Correct.
 7
                Again, going down through April, sort of
    the same type of activity?
 8
 9
          Α
                 There are a large number of connections,
10
    yes, sir.
11
                Now, I see between the last date, the 9,
12
    April 2010 and 3, May 2010 there's sort of a gap there.
13
    What does that mean?
14
          Α
                No activity. I had no action, no activity
15
    for either IP at those -- for that time period.
                Now, based on what we saw on the Centaur
16
          0
17
    logs for the April timeframe, you're not seeing any
18
    Department of State firewall logs, what does that tell
19
    you?
20
                Again, like, for example, 8 April, that
          Α
21
    date is not present in Centaur, but it is present here.
```

```
But, again, you observed at least some
1
          Q
2
    connections for some dates in Centaur, in the Centaur
3
    logs?
          Α
                Yes, sir.
4
                THE COURT: Before you remove that, let me
5
6
    just ask you a question.
7
                So when you're looking at, for example, 30,
    March of 2010, the computer with the address, was it
8
    .22 or .40?
10
                THE WITNESS: .22, ma'am.
11
                THE COURT: Are you saying that computer
12
    went to the Department of State website that amount of
13
    times?
14
                THE WITNESS: The firewall log shows there
15
    are a number of connections. The issue I had was --
    I'm not sure what the connections mean. It just means
16
17
    that log file, that firewall captured that 149,000
18
    times. That's what it deemed as a connection.
19
                Is that individual file being downloaded
20
    each time? I don't know. I say there's a connection
    between the two computers that many times.
21
```

```
THE COURT: So let me ask you one more
1
2
    question. If somebody was to have that many
3
    connections on one day, how long would that take?
4
                THE WITNESS: Um...
5
                MR. MORROW: Actually, Your Honor, I can
    ask a very specific question.
6
7
                THE COURT: Go ahead.
    BY MR. MORROW:
8
          Q
                On March 30, over the course of that day,
    how many hours between the first connection and the
10
11
    last connection on that day?
                There was 11 hours.
12
          Α
13
                THE COURT: That doesn't answer my
14
    question.
15
                Could a person using a computer have that
16
    many --
17
                THE WITNESS: In an automated process, yes.
18
                THE COURT: Go ahead.
19
                MR. MORROW: Your Honor, the Prosecution
    moves to admit Prosecution Exhibit 159 for
20
    identification into evidence.
21
```

MR. COOMBS: No objection, Your Honor. 1 THE COURT: All right. His prosecution 2 Exhibit 159 for identification is admitted. 3 4 BY MR. MORROW: Agent Shaver, let's talk about the 5 0 6 Department of State server logs. What kind of information did the server 7 logs capture? 8 9 Α Sir, these were standard Windows log files. They captured dates and times, the remote IP and the 10 file requested and things like that. 11 12 So they were a little more descriptive than 13 the firewall ones? 14 Α Yes, sir. 15 Now, did the server logs, were there any large gaps in data that you that came to you when you 16 17 did the examination in the server logs? 18 Α The server logs only were from April 30th until June. So anything prior to April 30th, there 19 20 were no log files. 21 Q Do you know why there were no log files for

```
1
    those dates?
 2
                No, sir, I do not.
 3
          0
                Now, what, if anything, did you observe in
 4
    the server logs?
                 There was a large number of downloads on
 5
          Α
    3 May from .22 using the Wget utility.
 6
 7
                 I'm going to ask you to move to the panel
    box, please and I'm going to retrieve Prosecution
 8
    Exhibit 158 for identification.
 9
10
                MR. FEIN: Could I have a moment, Your
11
    Honor?
                 THE COURT: Yes.
12
13
                             (Off record discussion.)
14
                MR. MORROW: Agent Shaver, could you move
    back to the witness box.
15
16
                             (Witness returned).
17
    BY MR. MORROW:
18
          Q
                 I'm handing what's been marked as
    Prosecution Exhibit 158 for identification.
19
20
                Yes, sir.
          Α
21
          Q
                Do you recognize the document?
```

Yes, sir. 1 Α 2 O What is it? 3 Α This is one-page of the log files for the 4 Department of State server. 5 Now, when you say one page, what's the O number at the bottom of the page? 6 7 This is page 28 out of 641. So it printed the activity on that day, 8 3 May would have been 641 pages? 10 Α Correct. Approximately how many lines of data, 11 approximately? 12 13 Α 17. 14 Q On that page? I'm talking total, if you 15 had the 641 pages. 16 Thousands. Α Can you describe, in general terms, sort of 17 18 what you're observing in those logs when you look at them? 19 20 Yes, sir. From left to right we have a Α line number. Then we have the remote IP which, in this 21

```
case was .22. We have the date and time of the file
1
2
    being downloaded. In this case, it's May 3rd, 2010 and
3
    then we have the files being downloaded. In this case
4
    here, Department of State MRS.
                And you said something about Wget, there's
5
          0
6
    a Wget in the logs.
7
                Can you explain that, please?
          Α
                Yes, sir. Wget was the tool that was used
8
    to download these files.
10
          Q
                On this day, May 3rd?
11
                Yes, sir.
                MR. MORROW: Your Honor, the prosecution
12
13
    moves to admit Prosecution Exhibit 158.
14
15
    PART 3
16
                MR. MORROW: The prosecution moves to
17
    admit 156.
18
                MR. TOOMAN: No objection.
                THE COURT: Prosecution Exhibit 156 is
19
    admitted for identification.
20
    BY MR. MORROW:
21
```

1	Q Agent Shaver, we'll talk about SIPRNET		
2	warning barriers later. I want to move on to your		
3	examination of this computer.		
4	Now, when you examined this computer, what		
5	exactly did you exam?		
6	A I examined an image of the computer itself,		
7	not the computer.		
8	Q And what was your process again for your		
9	examination?		
10	A Sure. The image was checked out. I		
11	verified (inaudible), made a working copy and I did my		
12	examination on that.		
13	Q And what were you looking for on this		
14	computer?		
15	A Sir, since this was a NIPRNET computer. I		
16	want to see what was there and what was allocated, the		
17	files and internet history and things like that.		
18	Q All right. So let's talk about internet		
19	history. Where do you find internet history on a		
20	computer?		
21	A Several locations, but in this case since		

```
Internet Explorer was the only browser, it was within a
 1
 2
    file called index.DAT.
 3
          O
                And again, what does index.DAT capture?
                 It captures both the local files views and
 4
          Α
 5
    websites, access.
                What do you mean by local files viewed?
 6
 7
                If you had a file on your desktop, you
    access it, it would capture that as well.
 8
 9
          Q
                Now, you said it captured websites as well;
    is that correct?
10
11
                Correct.
                Did it capture searches? Searches on,
12
13
    like, Google, for example?
14
          Α
                 It would have, yes.
                And what kind of searches did the
15
          0
    Bradley. Manning user account pick up that you observed?
16
                 There were several. Things like -- Wget
17
18
    was one. Bay 64, Excel and Wikileaks as well.
                And how far back --
19
          Q
20
                THE COURT: You said Bay 64?
21
                THE WITNESS: Bay 64 and Excel.
```

Again, for the court, what is Bay 64? 1 Q That's an encoding mechanism where it takes 2 3 text and you can encode it into XML form. It's good for -- it's used for compression. 4 And if you would, just describe where 5 6 you've seen -- in what context have you seen Bay 64 on 7 the SIPRnet computers, for example? On the .22 computer, there was a common 8 Α (inaudible) CSU files, Department of State cables which 10 had been converted to Bay 64. What about on the .40 computer? 11 12 There was -- on the .40 computer, within the allocated space, there was one CSL file containing 13 14 over 100,000 complete Department of State cables 15 because they had been Bay 64 encoded. Now, let's go to the internet activity. 16 Q 17 How far back were you able to see activity 18 under the Bradley. Manning user account? 19 It was started in March 2010. Α 20 I'm showing you what has been marked as Q prosecution Exhibit 157 for identification. 21

```
1
                THE COURT: Prosecution exhibit?
                                    I'm handing the witness
 2
                MR. MORROW: 157.
 3
    what's been marked at Prosecution 157 for
 4
    identification.
    BY MR. MORROW:
 5
 6
          Q
                Agent Shaver, do you recognize that
 7
    document?
          Α
                Yes.
 8
                What is this document?
10
          Α
                Sir, this is a document I created. It is
    the small segment of the internet history from the
11
12
    index.DAT file of the Bradley.Manning user profile.
13
          0
                Now, let me stop you there.
                How is it created? So it's not the
14
15
    entirety of the index.DAT?
                No, sir. It's a very small segment.
16
          Α
17
                How did you treat that small segment?
18
          Α
                 I converted the index.DAT to an Excel
19
    document.
20
                And then what did you do?
          Q
21
          Α
                I filtered on the keyword Wget.
```

```
MR. MORROW: Your Honor, permission to
 1
 2
    publish?
 3
                 THE COURT: Go ahead.
 4
    BY MR. MORROW:
                Agent Shaver, I don't want to go through
 5
          Q
 6
    the whole thing, but I want to go through a couple of
    lines of information here.
 7
                Can you see that?
 8
 9
          Α
                Yes, sir.
                Let's talk about the first line.
          Q
10
11
                Can you describe the activity you're
12
    observing now?
13
                Yes, sir. Again, the line number 1, the
14
    date and time. It shows the Bradley. Manning user
15
    profile, searched Google for the keywords Wget and
    "ampersand."
16
17
          O
                And how does an ampersand work with Wget?
18
          Α
                It's --
19
                What's -- why would those two be connected?
          Q
20
                Then you get a command line tool. There is
          Α
    a lot of switches and a lot of choices -- you can tell
21
```

```
it to do a lot of things. The ampersand sign in this
 1
 2
    case, it would help it run a little quicker to download
    the files.
 3
 4
                Now, let's move down to -- now, line one is
          Q
    just a search of the Internet, Wget and ampersand?
 5
 6
          Α
                 Correct.
                Let's look at line 9.
 7
          Q
                Yes, sir.
 8
          Α
 9
          O
                What is that activity?
10
                 That's on 27, March 2010 and that's the
          Α
    file Wget.exe being downloaded from the website.
11
                 And now let's move to line 15.
12
13
                 Yes, sir. On May 3rd, 2010, again, the
14
    Bradley. Manning user profiles, someone is downloading
15
    Wget.exe again.
                Again, let's -- so I can circle back here.
16
17
    The first line at least in this is 3 March or 7,
18
    March 2010?
19
          Α
                 Correct.
20
                 Again, what was the -- how much internet
          Q
21
    activity were you actually able to observe on the
```

```
index.DAT file on this computer? Anything before 7,
 1
    March 2010?
 2
 3
          Α
                No, sir.
                 MR. MORROW: Your Honor, the prosecution
 4
    moves to admit Exhibit 157 for identification purposes.
 5
 6
                 MR. TOOMAN: No objection, Your Honor.
 7
                 THE COURT: Prosecution Exhibit 157 for
    identification is admitted.
 8
    BY MR. MORROW:
 9
10
          Q
                Now, you say the user, the Bradley.Manning
    user downloaded Wget on three (inaudible); is that
11
12
    correct?
13
                Correct.
14
                At least from what you observed in the
          Q
15
    Internet Explorer?
16
          Α
                 Yes, sir.
17
                Now, did you observe Wget being used from
18
    this computer?
19
                No, sir.
          Α
20
                 In the course of this investigation, have
          Q
21
    you seen evidence that Wget was present on other
```

```
computers?
1
 2
          Α
                 Yes, sir.
 3
          0
                And what other computers?
          Α
                On .22, sir.
 4
                Now, did you see any evidence that the Wget
 5
          Q
    filed downloaded on this NIPRNET computer was moved to
 6
    the .22 computer?
 7
          Α
                 Yes, sir.
 8
                 Can you explain that, please?
 9
10
          Α
                 Yes, sir. Again, I did the hash value of
11
    the file being on the Wget file on the .139 computer
    matched exactly the same file within the
12
13
    Bradley.Manning user profile on .22.
14
          0
                 And can you tell on .22 when that movement
15
    occurred, when that file was created on that computer,
    SIPRNET computer?
16
17
                 It was shortly -- it was a few hours
18
    afterwards created on .139. So I believe .139 was
19
    almost 2,100 hours and just a few hours later it was on
20
    .22.
21
          Q
                Agent Shaver, I want to go back to the
```

```
.22 computer and tie up a few lose ends.
                                                I mentioned
 1
 2
    warning banners earlier.
 3
                Now, were the SIPRnet computers
 4
    (inaudible)?
 5
                No, sir.
          Α
                And how did a user log on the SIPRnet?
 6
 7
          Α
                User name and password.
                And how do you know that?
 8
          O
 9
          Α
                 I converted the computer into a virtual
10
    machine and booted it up and it asked me for a user
    name and password.
11
12
                 I show you what has been marked as
13
    prosecution 155 for identification.
                                          I am handing the
    witness what's been marked as Prosecution Exhibit 155
14
    for identification.
15
                 Do you recognize that document?
16
17
                 Yes, sir.
          Α
18
          O
                And what is it?
19
                 This is a document I created and within
          Α
    .22 I went to the register file and removed the --
20
21
    copied out the warning banner and placed it on this
```

```
1
    document.
 2
                So when you copied out the warning banner
3
    from the registry file on the .22 computer and you
4
    copied it over to a Word document, did you alter the
    information in any way?
5
6
          Α
                No, sir.
7
                MR. MORROW: The prosecution moves to admit
    Prosecution Exhibit 155 for identification.
8
9
                MR. TOOMAN: No objection, Your Honor.
10
                MS. OVERGARD: Prosecution Exhibit 155 for
    identification is admitted.
11
    BY MR. MORROW:
12
13
                Agent Shaver, I want to talk again about --
    there's been some confusion in this case about the
14
15
    settings for internet browsers. Again, I want to talk
    specifically about the Mozilla Firefox web browser.
16
17
                What is that?
18
          Α
                It's a web browser, sir.
                And how does a user use the web browser?
19
20
    How is it utilized by someone, sir? This isn't a trick
21
    question.
```

```
Yes, sir. You double-click on the icon, it
1
 2
    opens up and it goes to your homepage and then you
    would surf the web.
 3
                And do web browsers store information when
 4
          Q
    you click open and search the web?
5
                By default. In this case, Firefox, by
6
7
    default, it does save that information.
                So by default, Firefox saves Internet
8
          Q
    Explorer web browsing history?
10
          Α
                Correct.
11
                When you examined the .22 computer, you
    looked at the Firefox web browser, correct?
12
13
          Α
                Correct.
14
                How is that web browser configured?
15
          Α
                Within the Bradley. Manning user profile,
    that profile is configured to -- to turn private
16
    browser mode on so it would not obtain any history.
17
18
    But other users on the .22 computer also had Firefox,
    but those computers, those profiles, were not
19
    configured that way. They were configured the default
20
21
    way or history would be maintained.
```

```
Now, in order to -- so essentially what I'm
1
          Q
 2
    hearing is private browsing has to be enabled by a
 3
    user, it's not something that is the normal protocol
 4
    for the web browser?
          Α
                Correct.
 5
                One moment, Your Honor.
 6
 7
                Are you familiar with a video called
    Collateral Murder?
 8
 9
          Α
                Yes, sir.
                And where have you seen that video in this
10
          Q
11
    case?
12
          Α
                Within the Bradley. Manning user profile,
13
    that video was present.
14
          0
                Can you explain that, please? You said
15
    within the Bradley. Manning user profile. Just a little
16
    more specificity...
                Within the profile, there's a folder called
17
18
    videos.
19
                THE COURT: In which computer?
20
                 THE WITNESS: I'm sorry. Thank you, ma'am.
21
    On .22 within the Bradley.Manning use profile, my
```

```
documents, videos, there was, I think, another folder
 1
 2
    called Sane and that's where that video was present,
    was allocated there.
 3
                 I'm showing you what's been marked as
 4
          Q
    prosecution Exhibit 165 for identification.
 5
    showing you what is marked as Prosecution
 6
    Exhibit 165 for identification.
 7
                 Do you recognize that document?
 8
 9
          Α
                Yes, sir.
                What is it?
10
          Q
11
                 This is a screen shot of the Manning case
    program, but it's showing the videos, several videos.
12
13
          0
                 There is no publisher on there?
14
          Α
                 (No response.)
15
          Q
                 Now, when I ask you whether you had seen
    the Collateral Murder video, what video are you
16
17
    referring to?
18
          Α
                 The bottom one, OSC_YouTube-CM.wmv.
19
                And approximately how long is that video?
          Q
                 It's about 17 minutes.
20
          Α
21
          Q
                 Can you describe -- you watched the video,
```

```
1
    I assume?
 2
          Α
                 Yes, sir.
 3
          0
                 Can you describe, generally, what it
 4
    depicts?
 5
          Α
                 Yes, sir. It starts with an Orwellian
    quote and then it shows, basically, a battle scene in
 6
    Iraq and with a commending sub-text pointing things out
 7
    with arrows, things like that.
 8
                 And when was that file created on the
 9
          Q
10
    computer? When did that file appear on the computer?
                 12, April 2010.
11
          Α
                And what does that mean?
12
          O
13
                 That file was copied there on that time and
    date.
14
                And let's look at the middle line of this
15
          O
    screen shot. Have you watched that video before, the
16
17
    12, July '07 CD, Danger Zone?
18
          Α
                 I have.
19
                 And did you compare that file to the
20
    OSC_YouTube-cm?
21
                 I did.
          Α
```

```
And what was --
1
          Q
2
                The 12, July '07 CZ movie, that appears to
3
    be the source. It's a much longer video and it appears
4
    to be from military aircraft. The source of the movie
    for the OSC YouTube movie.
5
                MR. MORROW: Prosecution moves to admit
6
7
    prosecution Exhibit 165.
8
                MR. TOOMAN: No objection, ma'am.
9
                THE COURT: Prosecution Exhibit 165 for
    identification and admitted.
10
    BY MR. MORROW:
11
                And I show you what's been marked as
12
    Prosecution Exhibit 168 for identification.
13
    handing you what's been marked as Prosecution Exhibit
14
    168 for identification.
15
16
                Now, what is that?
17
                It's a CD.
          Α
18
          Q
                Have you looked at that CD?
19
                Yes, sir, I have.
          Α
20
                What is on the CD?
          Q
                It's a movie OSC_YouTube-CM.wmv.
21
          Α
```

```
MR. MORROW: Your Honor, the prosecution
1
2
    would submit Prosecution Exhibit 168 for
    identification.
3
                MR. TOOMAN: No objection, Your Honor.
4
5
                THE COURT: Can I see it, please?
    Prosecution Exhibit 168 for identification is admitted.
6
7
                MR. MORROW: For the remainder of Agent
    Shaver's testimony, the government is going to ask for
8
    a closed session. I don't know whether defense wants
    to cross at this point.
10
11
                THE COURT: You want to cross examine the
12
    agent?
13
                MR. TOOMAN: Yes, ma'am.
14
                EXAMINATION BY MR. TOOMAN:
15
          Q
               Good afternoon.
16
          Α
                Good afternoon, sir.
17
                Agent Shaver, you spoke first about Centaur
18
    logs?
19
          Α
                Yes, sir.
20
                So let's focus on that. Now, you talked
          Q
21
    about a number of gaps in those logs, correct?
```

Yes, sir. 1 Α 2 So when there is a gap in the logs, you 3 don't see any activity? Correct. 4 Α Now, is it possible that when there's a gap 5 0 in the log that could be because the SIPRnet was down? 6 The entire SIPRnet? 7 Α Or a particular user's access to SIPRnet? 8 9 Α Sure. 10 Okay. And if that were the case, the user Q wouldn't have the ability to transfer any data? 11 12 Α Correct. 13 And if a user didn't have SIPRnet access, 14 again, central logs wouldn't catch anything, correct? 15 Α No. And they wouldn't be able to do anything 16 17 with their SIPRnet machine? 18 Α Yes, sir. Now, with respect to the Centaur logs, 19 20 there was no activity in November of 2009 that was 21 large enough to have transferred a video, correct?

## **UNOFFICIAL DRAFT - 6/26/13 Afternoon Session**

			46
1	A	Correct.	
2	Q	The same is true in December of 2009?	
3	A	Correct.	
4	Q	Now, let's transition to the Department of	
5	State firewa	all that you spoke of?	
6	A	Yes, sir.	
7	Q	Now, a firewall would stop an individual	
8	who doesn't	have access, correct?	
9	A	Correct.	
10	Q	So if a user has access to the Department	
11	of State ser	ever, the firewall is going to let him	
12	through?		
13	A	Correct.	
14	Q	And if they don't have access, the firewall	
15	is going to	stop them?	
16	A	Correct.	
17	Q	Now, those firewall logs were pretty bare	
18	bones, weren	n't they?	
19	A	Yes, sir.	
20	Q	All they really captured were a date and a	
21	time?		

## **UNOFFICIAL DRAFT - 6/26/13 Afternoon Session**

			47
1	A	And a network connection, yes, sir.	
2	Q	So you get a date and a time?	
3	A	Yes.	
4	Q	You get a number of connections and you get	
5	the source	IP?	
6	A	Correct.	
7	Q	And the destination IP?	
8	A	Correct.	
9	Q	And the Department of State left a lot on	
10	the table a	as far as the other data they could have	
11	captured,	correct?	
12	A	Left a lot?	
13	Q	The firewall log could have captured more	
14	data?		
15	A	I'm not sure about that firewall, but other	
16	firewalls o	could have.	
17	Q	Okay. What other types of information can	
18	firewall lo	ogs catch?	
19	A	They capture lots of things, like files	
20	transfer, r	meta-data transferred, things like that.	
21	Q	And the Department of State firewalls logs	

weren't set up to do that? 1 2 Α No, sir. 3 Q Now, you spoke about the number of connections between the .22 and .40 machine and the 4 Department of State servers and you talked about one 5 6 where there was -- one day where there were a lot of 7 connections, 159,000 connections? Yes, sir. 8 Α 9 Q Now, is it possible that some of those 10 connections were failed connections, there was an 11 attempt and then, ultimately, nothing happened? 12 Α It is possible. Now, if one were to automate that process 13 14 of connecting to a server, how long would those 149,000 15 connections take? 16 Α Not very long. It depends on the 17 automation method. 18 0 Okay. Would it also depend on whether or 19 not data was being transferred? 20 Yes, and, of course, you have to worry Α 21 about your network speed, where you are in the world,

are there other issues. 1 So it's possible that 149,000 connections, 2 3 while a big number, could have happen very quickly? 4 Α Yes. And it's also possible that while those 5 0 6 connections are happening, the user, the source IP -use of the source IP is doing other things? 7 Α Correct. 8 0 Let's switch to the NIPR computer, the 10 139 computer. 11 Α Yes, sir. 12 Now, you mentioned that there was no 13 activity before March on that computer; is that right? 14 Α For that profile, yes. 15 Okay, for that profile. Do you know why that was? 16 17 Α No, sir. 18 Q Do you know if that particular machine had been reimaged at all? 19 I do not recall. 20 Α 21 Q Do you know if that particular machine had

1	been wiped?	
2	A	No, sir, not to my knowledge.
3	Q	Do you know if that particular machine had
4	the operati	ng system reinstalled?
5	A	No, sir. I'm sorry, I do not.
6	Q	Now, in your review of that machine, the
7	NIPR machin	e, did you find any evidence of the
8	Wikileaks m	nost wanted list on that computer?
9	A	No, sir, I did not.
10	Q	And on that NIRP machine, where was that
11	physically	located?
12	A	I was told it was in the SCIF in the common
13	area.	
14	Q	So out in the open?
15	A	Yes, sir.
16	Q	Where people would be walking by?
17	A	Presumably so, yes, sir.
18	Q	Now, you spoke about web browsers and
19	browsing hi	story?
20	A	Yes, sir.
21	Q	Are you aware of any restrictions on

```
setting your computer up to do private browsing?
1
 2
                On the Army computers for Internet
3
    Explorer, that was not a option. But I don't know of
    any prohibitions from it for other browsers.
4
                One moment please, Your Honor.
5
          Q
 6
                (Pause.)
                That's all. Thank you.
7
                THE COURT: Redirect?
8
9
                MR. MORROW: No, Your Honor.
10
                THE COURT: Agent Shaver, I have a couple
11
    of questions. I just want to make sure I understood
12
    your answer to the last question.
13
                Are you saying that on the NIPR computer a
14
    user couldn't do private browsing?
15
                THE WITNESS: Correct, ma'am. The NIPRNET
16
    computer .139 only had the Internet Explorer browser
17
    and that feature for private browsing was not available
18
    for a user.
19
                THE COURT: Oh, so when you're talking
    about private browsing, you're talking about the
20
21
    Internet history, not browsing for personal reasons?
```

```
THE WITNESS: Correct.
1
 2
                THE COURT: I misunderstood you. Give me a
3
    second.
4
                THE WITNESS: Yes, ma'am.
                THE COURT: I believe you testified earlier
5
6
    that you saw the Wget downloaded from the .139 computer
    and then several hours later saw it on the
7
    .22 computer?
8
9
                THE WITNESS:
                              Correct.
10
                THE COURT: What are possible ways that a
11
    user could transfer a Wget program from the 139
12
    computer to the .22 computer?
13
                THE WITNESS: Most logical is burn a CD.
14
                THE COURT: Do SIPRnet computers like .22,
15
    just regular CDs that go on NIPRNET computers, they
    take the same kinds of CDs?
16
17
                THE WITNESS: Yes, ma'am.
18
                THE COURT: We spoke earlier that 149,000
19
    connections could happen quickly.
                Now, is that for any user or a user using
20
21
    some special automated program?
```

```
THE WITNESS: It would appear just a
1
2
             It was some kind of automated tool, something
3
    that made a repetitive task fast.
                THE COURT: If a user did not have an
 4
    automated tool, could a user make 149,000 connections
5
6
    in one day?
7
                THE WITNESS: Maybe if they're really
    dedicated, ma'am. They would be clicking a lot.
8
9
                THE COURT: On the Centaur logs where there
    was no activity -- was there no activity -- did you
10
    look and see if there were activities to the computer
11
12
    on the day on the nightshift?
13
                THE WITNESS: There was no activity at all.
14
                THE COURT: No activity at all?
15
                THE WITNESS: Correct.
                THE COURT: Did you look at whether there
16
17
    was activity on the day versus the nightshift?
18
                THE WITNESS: It would just show up as
    activity as in a day. So if there was activity, you
19
20
    would have to look at the times to determine, but we
21
    just said show everything you have for -- everything
```

```
you had for the entire time period. And this is what
1
2
    they gave us. So if it was there, it would be there.
3
    It was both day or nightshift.
                THE COURT: And I believe you answered in
 4
    response to a defense question of one thing that could
5
6
    cause a gap in the Centaur logs would be that the
7
    user's SIPR was down.
                THE WITNESS: If there's a network issue,
8
    yes, ma'am.
10
                THE COURT: What other possible causes
    could there be?
11
12
                THE WITNESS: The centaur failed. Again,
13
    big network issues.
14
                THE COURT: In the 139 NIRP, you testified
15
    there was no activity before March of 2010 for the
16
    Bradley.Manning user profile?
17
                THE WITNESS: Correct.
18
                THE COURT: Did you see if there was
    activity before March for any of the other user
19
20
    profiles?
21
                THE WITNESS: I don't recall, ma'am.
```

```
THE COURT: Any followup based on my...
1
 2
                MR. MORROW: One more question, Your Honor.
 3
                EXAMINATION BY MR. MORROW:
          Q
                Agent Shaver, you talked to me about a
 4
    number of reasons for gaps in the Centaur data.
5
    based on your analysis of all the information you've
6
7
    seen in the case, all the logging Department of State
    logs and totaling the logs, et cetera, what is the most
8
    likely reason for the gap in Centaur data?
9
10
                THE WITNESS: The Centaur failed.
11
                MR. MORROW: Thank you.
                EXAMINATION BY MR. TOOMAN:
12
13
          Q
                Now, Agent Shaver, you talked about --
14
    we've talked about private browser and Internet
15
    Explorer.
16
                Now, on the NIRP machine, the only web
17
    browser on that was Internet Explorer, correct?
18
          Α
                Yes.
19
                On other machines, the .22 machine or the
    .40 machine there's Firefox?
20
21
          Α
                Correct.
```

And in Firefox one of the options is 1 Q 2 private browsing? 3 Α Correct. That's not an option with Internet 4 Q 5 Explorer? Not in that version, correct. 6 7 But when it is an option, there's nothing that would prevent a user from employing private 8 9 browsing, correct? 10 I don't know how the Army does it now, but at that time that feature was not available. 11 So it was an older browser. I don't know... 12 13 THE COURT: Are you speaking of Internet Explorer or Firefox? 14 THE WITNESS: Yes, ma'am. Internet 15 Explorer, it was an older browser version and I don't 16 17 believe that was a present as an option. 18 BY MR. MORROW: 19 Let me clarify. The Firefox on those Q 20 computers, private browsing was an option within Firefox. 21

1 Α Yes. 2 And there was nothing that would have 3 prevented a user from employing private browsing on 4 Firefox? Α That's correct. 5 Now, you talked about Wget and how it would 6 7 have gotten on the .22 machine. When it was put on the 22 machine, it was put on there as an executable file, 8 9 correct? 10 Α Correct. 11 So that means it wouldn't have gone into 12 the program list? 13 Α It could have. 14 0 How would an user get into the program? 15 Α Administrative privileges to put it there. 16 Q So if it wasn't in the program list, well, 17 you would needed administrative privileges to do that? 18 Α To put it there, yes. So if you wouldn't have -- if a person 19 20 didn't have administrative rights, they would pretty 21 much have to put it on their desktop?

Correct. 1 Α 2 0 Are they could run it from the disk? 3 Α Correct. 4 And you don't know whether or not that Q process was authorized within the S2 section of 210-9? 5 6 Α I'm sorry? 7 The process of placing an executable file on the desktop? 8 9 Α No, sir. I have no knowledge of that. 10 Now, you testified that in all likelihood Q 11 the gaps in the Centaur logs would have been caused by Centaur itself just being down? 12 13 Α Correct. 14 So that wouldn't have anything to with any 15 action by PFC Manning? 16 Α Correct. 17 MR. MORROW: Thank you. 18 THE COURT: Let me ask one followup based on that to make sure I understand your testimony. 19 20 So the Wget, to be on the SIPR computer, 21 when does it require administrative privileges?

```
THE WITNESS: To run it, you don't need
1
2
    that. You don't have to have administrative privileges
3
    to run it. But if you were going to put it in the
    common area, the program files where all the other
4
    programs such as Office reside, you need a privilege to
5
6
    put a file there.
7
                THE COURT: So a user could run Wget on his
    computer by CD or desktop?
8
9
                THE WITNESS: Correct.
10
                THE COURT: Any followup based on that?
11
                MR. MORROW: No, Your Honor.
12
                MR. TOOMAN: No, ma'am.
13
                THE COURT: All right. Are we ready to
    move into closed session?
14
                MR. FEIN: Yes, ma'am. The United States
15
    requests the court for a closed session pursuant to the
16
17
    court's previous order what has been marked as
18
    Exhibit 550. The court is ordered to close certain
    proceedings dated 21 May, 2013 to elicit very specific
19
20
    testimony from Special Agent Shaver in reference to
21
    specification 3 of charge 2 and only specification 3 of
```

```
charge 2.
1
2
                THE COURT: Approximately how long does the
3
    government anticipate this session will last?
                MR. FEIN: Your Honor, the government's
 4
    case and its business case and any questions from the
5
6
    court, no more than max 30 minutes. Likely, less time.
                THE COURT: All right. Will you need a
7
    recess to put any measures in place?
8
9
                MR. FEIN: Yes, ma'am. The United States
    requests a 20 minute recess in order to institute the
10
11
    correct measures, swap out the court reporter
12
    equipment.
13
                THE COURT: All right. Is there anything
    that we need to address before we have the recess?
14
15
                MR. FEIN: No, ma'am.
16
                MR. TOOMAN: No, ma'am.
17
                THE COURT: All right. Members of the
18
    gallery and the public, the court is going to close
    this portion of the trial pursuant to the court's
19
20
    earlier findings under rule court-martial 806.
21
                We are also going to have a brief reopening
```

```
of the public portion of the trial after the closed
1
2
    session. Based on what Major Fein has proffered to me,
3
    I'm thinking that's going to take place roughly around
    4:00 or 16:00.
4
                Does that sound about right?
5
6
                MR. FEIN: Yes, ma'am.
7
                MR. TOOMAN: Yes, ma'am.
                THE COURT: All right. We may need to be a
8
    little bit flexible. I can't say with actual precision
    when it's going to occur, but that's going to be the
10
    target range. So court is in recession for 20 minutes.
11
12
                 (There was a recess taken at 2:49 and the
    trial reconvened at 4:04 p.m.)
13
14
    BY MR. MORROW:
15
                Did you examine those log files in this
    case?
16
17
                Yes, sir, I did.
          Α
18
          Q
                And what exactly was collected by CCIU?
                There was two sets of logs collected.
19
          Α
    First would be Open Source Center or OSC and then the
20
    second one a set of logs called Wire Logs.
21
```

And what is the Open Source Center? 1 Q 2 Sir, that is a website. It has Open Source 3 stuff. So web documents, transcripts, television shows, things like that. 4 And do you know whether PFC Manning 5 0 6 appeared to have an Open Source Center account? 7 Yes. There were two actual accounts. Α And what was the user name of the accounts? 8 9 Α E. Manning was the first one and the second one was Brad assay 87. 10 11 Now, what kind of information was captured 12 in the logs for the Open Source Center? 13 The user name, the date and time, files searched for and files viewed. 14 15 0 Can you just describe, generally, the activity you observed for the Brad assay 87 user 16 17 account? 18 The first day of log files for that account 19 were February 20th, 2010. There was no more searches 20 and files viewed. There were searches for Wikileaks, 21 Iceland and other things as well.

1	Q And do you recall how many total searches
2	for Wikileaks that you observed in the log files you
3	examined?
4	A Sir, there were over 20.
5	Q And what about total searches?
6	Approximately how many totals searches for Iceland?
7	A Approximately 25, sir.
8	Q Can you recall the first search for
9	Wikileaks in the Open Source Center logs?
10	A Yes, sir. It was on the first day, so
11	February 20, 2010.
12	Q And what about the first search for
13	Iceland?
14	A Same thing, sir.
15	MR. MORROW: Thank you.
16	EXAMINATION BY MR. TOOMAN:
17	Q The first search in the Open Source Center
18	by PFC Manning's user account was on the 20th of
19	February, correct?
20	A Yes, sir.
21	Q Nothing before January?

1	А	Correct.
2	Q	Nothing in December?
3		And PFC Manning's user account also
4	searched for	r things related to Iraq, correct?
5	A	Yes, sir.
6	Q	And he did that quite a bit?
7	A	Yes, sir, he did.
8		MR. TOOMAN: Thank you.
9		THE COURT: Redirect?
10		MR. MORROW: No, Your Honor.
11		THE COURT: Special Agent Shaver, someone
12	from a user	account like in this case goes and searches
13	for, say, W	ikileaks and then pulls up something in the
14	search, are	these logs able to track that?
15		THE WITNESS: Yes, ma'am. It will actual
16	say the wor	ds "file viewed."
17		THE COURT: If they go into the file
18	further?	
19		THE WITNESS: If they open the file, yes.
20		THE COURT: Is the are the logs able to
21	track that?	

```
THE WITNESS: Yes.
1
2
                THE COURT: When PFC Manning searched for
3
    Wikileaks, what did he find?
                THE WITNESS: Documents pertaining to the
4
    Wikileaks site. I don't recall what files he viewed.
5
6
    I just looked for searches. But it's Open Source
    Center stuff. So it would have been stuff readily
7
    available on the web.
8
9
                THE COURT: So let me just make sure I
    understand your testimony. The logs track what the
10
11
    user views. So if the user opens something with a
12
    search term and viewed it, the log would tell you what
13
    it was that they reviewed?
14
                THE WITNESS: Yes, ma'am.
15
                THE COURT: And in this particular case,
    you just don't remember what the logs say?
16
17
                THE WITNESS: Pertaining to?
18
                THE COURT: To the search for Wikileaks.
19
                THE WITNESS: Correct.
20
                THE COURT: Okay. Any followup based on
21
    that?
```

```
MR. MORROW: No, Your Honor.
1
 2
                MR. COOMBS: No, ma'am.
3
                THE COURT: Temporary or permanently
    excused?
4
5
                MR. MORROW: Temporary, Your Honor.
6
                THE COURT: Did the government want to
7
    state in the open court what exhibits were admitted?
                MR. MORROW: Absolutely, Your Honor.
8
    Prosecution Exhibits 154, 166 and 167 were admitted.
10
                THE COURT: All right. Temporarily
11
    excused. Once again, you are temporarily excused.
12
    Please don't discuss your testimony or knowledge of the
13
    case with anyone other than counsel of the accused
14
    while the trial is still going on.
15
                Other than by number, is there any way to
    label those exhibits in open court?
16
17
                MR. MORROW: One moment, Your Honor.
18
                Your Honor, the Plaintiffs will identify
    those exhibits by Bates number. We'll do that tomorrow
19
20
    in open court.
21
                THE COURT: All right. Is there anything
```

```
else we need to address today other than timing and
1
2
    scheduling?
 3
                MR. FEIN: No, ma'am.
                MR. COOMBS: No, ma'am.
 4
                THE COURT: The parties have talked to me
5
    about tomorrow's scheduling. They are going to be
6
7
    arriving at additional stipulations of expected
    testimony and they need some time to do that.
8
9
                So we are going to be recesses court today
10
    and beginning tomorrow at 12:00, at noon, to allow the
    parties to continue to do what they need to do to get
11
12
    those stipulations of expected testimony and I believe
13
    that's all we need to discuss with respect to
14
    scheduling; is that correct?
15
                MR. FEIN: Ma'am, it's just mostly for the
    general public's awareness that we will take a lunch
16
17
    recess tomorrow. So we'll start at noon and move
18
    forward.
19
                THE COURT: Okay. So we'll all have eaten
20
    lunch before we start.
21
                Anything else we need to address?
```

## **UNOFFICIAL DRAFT - 6/26/13 Afternoon Session**

```
68
1
                 MR. FEIN: No, ma'am.
 2
                 MR. COOMBS: No, Your Honor.
 3
                 THE COURT: All right. Court is in recess
 4
    until noon tomorrow.
 5
 6
 7
 8
 9
10
11
12
13
14
15
16
17
18
19
20
21
```

## 29:8:30:3:31:1:33:13: 17:18:18:1.2.4:22:7.12. battle (1) 17,20;25:18,19;42:11 34:13,15,16,20;36:10; 42:6 A 38:13,15;45:14;54:12; area (2) Bay (7) 50:13:59:4 30:18,20,21;31:1,6,10,15 66:11 ability (2) AGENT (22) ARMY (5) beginning (2) 2:9;45:11 4:5;5:11;8:2,11;13:6; 1:2,7,9;51:2;56:10 22:1;67:10 able (5) 17:3;21:19;25:5;26:14; around (1) BEHALF (2) 31:17;34:21;45:16;64:14, 29:1;32:6;33:5;36:21; 61:3 3:3.12 38:13;44:7,12,17;51:10; arriving (1) belongs (1) above-entitled (1) 55:4.13:59:20:64:11 67:7 11:19 1:15 Bench (2) agree (1) arrows (1) Absolutely (1) 7:6 42:8 17:1;21:17 66:8 ahead (5) ASHDEN (1) better (1) access (7) 16:21;21:16;24:7,18;33:3 10:9 3:4 30:5,8;45:8,13;46:8,10,14 aircraft (1) assay (2) big (2) account (8) 43:4 62:10,16 49:3;54:13 30:16;31:18;62:6,17,18; ALEXANDER (1) assume (2) bit (2) 63:18:64:3.12 3:8 20:13;42:1 61:9;64:6 accounts (2) allocated (3) attempt (1) bones (1) 62:7,8 29:16;31:13;41:3 48:11 46:18 accurate (1) allow (1) audio (1) booted (1) 2:11 67:10 2:8 37:10 ACCUSED (2) allowed (1) audio/video (1) both (2) 3:12;66:13 19:13 2:7 30:4;54:3 action (2) allows (1) authorized (2) bottom (3) 22:14;58:15 17:15;27:6;41:18 19:7 19:11;58:5 activities (1) automate (1) almost (1) box (2) 53:11 36:19 48:13 26:8,15 activity (27) along (1) automated (4) Brad (2) 15:9.12.13:16:15.18:22:8. 13:19 24:17:52:21:53:2.5 62:10.16 14,14;27:8;31:16,17;33:11; alter (2) automation (1) Bradley (1) 34:9,21;45:3,20;49:13; 12:16;38:4 48:17 1:6 53:10,10,13,14,17,19,19; amended (1) available (3) BradleyManning (12) 54:15,19;62:16 6:20 51:17;56:11;65:8 30:16;31:18;32:12;33:14; actual (5) amount (6) aware (1) 34:14;35:10;36:13;39:15; 2:5;6:11;61:9;62:7;64:15 8:21;12:21;13:21;14:2; 50:21 40:12,15,21;54:16 actually (9) 15:3:23:12 awareness (1) brief (1) 5:19;9:2;10:5;11:14; ampersand (4) 67:16 60:21 13:12;17:9,16;24:5;34:21 33:16,17;34:1,5 browser (13) additional (1) В analysis (2) 30:1:38:16.18.19:39:12. 67:7 14,17;40:4;51:16;55:14,17; 12:11:55:6 address (8) ANGEL (1) 56:12.16 back (5) 10:11;11:15,15;19:16; 3:6 26:15;30:19;31:17;34:16; browsers (4) 23:8;60:14;67:1,21 38:15;39:4;50:18;51:4 answered (1) 36:21 addresses (3) backup (1) browsing (12) 54:4 10:5,12,12 anticipate (1) 2:8 39:9;40:2;50:19;51:1,14, Administrative (5) 60:3 17,20,21;56:2,9,20;57:3 banner (2) 57:15,17,20;58:21;59:2 antivirus (1) 37:21;38:2 burn (1) admit (8) 15:18 52:13 banners (1) 7:14;18:9;24:20;28:13, apologize (1) business (1) 37:2 17;35:5;38:7;43:6 22:4 bare (1) 60:5 admitted (12) appear (2) 46:17 6:19;7:21;15:6;18:13; $\mathbf{C}$ 42:10;53:1 barriers (1) 25:3;28:20;35:8;38:11; APPEARANCES (1) 29:2 43:10;44:6;66:7,9 Base (1) cables (3) 3:1 Afghanistan (1) appeared (1) 19:4;31:9,14 1:10 14:14 62:6 **based** (10) **Call** (1) afternoon (2) appears (2) 13:21;15:2,8;22:16;55:1, 5:3 44:15.16 43:2,3 called (7) 6;58:18;59:10;61:2;65:20 afterwards (1) Approximately (6) basically (3) 8:6;11:17;30:2;40:7,17; 36:18 27:11,12;41:19;60:2; 11:9;17:13;42:6 41:2;61:21 again (23) 63:6.7 Bates (1) calls (1) 10:6;13:1;15:15;17:16; April (11) 66:19 8:1 18:3;20:18;22:7,20;23:1;

came (3)	charge (2)	compression (1)	6:3,10,10;29:11
12:10;20:9;25:16	59:21;60:1	31:4	counsel (2)
Can (24)	check (2)	computer (52)	13:5;66:13
6:2;11:2,10,13,18;15:13;	15:17,17	8:21,21;9:13;10:21;11:1,	couple (2)
20:19;24:5;27:17;28:7;	checked (1)	2,5,7,15;20:4;23:8,11;	33:6;51:10
31:3;33:8,11,21;34:16;36:9,	29:10	24:15;29:3,4,6,7,14,15,20;	course (3)
14;40:14;41:21;42:3;44:5;	choices (1)	31:8,11,12;35:1,18;36:6,7,	24:9;35:20;48:20
47:17;62:15;63:8	33:21	11,15,16;37:1,9;38:3;39:11,	court (89)
CAPTAIN (5)	CIDNE (1)	18;40:19;42:10,10;49:9,10,	2:3,14;5:3,5;6:2,3,10,12,
3:5,6,7,8,15	14:14	13;50:8;51:1,13,16;52:6,8,	15;7:2,11,18;15:5;16:2,21;
capture (13)	circle (1)	12,12;53:11;58:20;59:8	18:12;21:16;23:5,11;24:1,7,
8:20;9:2,6;10:5,10,17;	34:16	computers (20)	13,18;25:2;26:12;28:19;
19:15,18;25:8;30:3,8,12;	clarify (1)	8:20;10:2,21;12:8;13:1;	30:20;31:1;32:1;33:3;35:7;
47:19	56:19	14:3,12,12;15:15;19:11;	40:19;43:9;44:5,11;51:8,10,
captured (11)	classified (1)	23:21;31:7;36:1,3;37:3;	19;52:2,5,10,14,18;53:4,9,
8:17;14:4,11,21;23:17;	12:2	39:19;51:2;52:14,15;56:20	14,16;54:4,10,14,18;55:1;
25:10;30:9;46:20;47:11,13;	CLERK (1)	concerning (1)	56:13;58:18;59:7,10,13,16,
62:11	5:2	9:12	18;60:2,6,7,11,13,17,18;
captures (4)	click (1)	concurrence (1)	61:8,11;64:9,11,17,20;65:2,
10:11,11,14;30:4	39:5	6:9	9,15,18,20;66:3,6,7,10,16,
capturing (2)	clicking (1)	conference (2)	20,21;67:5,9,19;68:3,3
10:6;21:13	53:8	17:1;21:17	COURT-MARTIAL (2)
case (22)	close (2)	configured (4)	1:6;60:20
8:12;9:19;20:2,4,8;28:1,	59:18;60:18	39:14,16,20,20	courtroom (1)
2,3;29:21;34:2;38:14;39:6;	closed (4)	<b>confusion (1)</b> 38:14	2:5
40:11;41:11;45:10;55:7; 60:5,5;61:16;64:12;65:15;	44:9;59:14,16;61:1 <b>CNN (2)</b>		court's (3) 6:10;59:17;60:19
66:13	11:13,13	connected (2) 22:3;33:19	created (9)
catch (2)	Collateral (2)	connecting (2)	13:11;16:8;21:7;32:10,
45:14;47:18	40:8;41:16	19:17;48:14	14;36:15,18;37:19;42:9
cause (1)	collected (6)	connection (10)	cross (2)
54:6	18:15,17,20;20:2;61:18,	10:15,17;14:10,11;20:4;	44:10,11
caused (1)	19	23:18,20;24:10,11;47:1	CSL (1)
58:11	colloquy (1)	connections (26)	31:13
causes (1)	2:18	13:14;14:8,16,20,21;	CSU (1)
54:10	Colonel (1)	20:20;21:9,10;22:2,4,9;	31:9
CCIU (5)	1:17	23:2,15,16;24:3;47:4;48:4,	curious (1)
9:8,11,19;18:18;61:18	column (2)	7,7,10,10,15;49:2,6;52:19;	12:7
CD (6)	14:1;17:18	53:5	CZ (1)
42:17;43:17,18,20;52:13;	combinations (1)	connectivity (1)	43:2
59:8	2:17	15:20	
CDs (2)	command (1)	contain (1)	D
52:15,16	33:20	2:14	
Centaur (32)	commencing (1)	containing (1)	Danger (1)
8:12,15,16;9:2,7,12,20,	1:16	31:13	42:17
21;10:10;12:5;13:13;14:3,	commending (1)	context (1)	data (20)
11;15:9;16:9,10,13;17:7;	42:7	31:6	9:1;10:18,18;12:6,21;
22:16,21;23:2,2;44:17;	common (3)	continue (1)	13:14,21;14:2,16;15:1,3;
45:19;53:9;54:6,12;55:5,9,	31:8;50:12;59:4	67:11	19:18;25:16;27:11;45:11;
10;58:11,12	communicate (4)	CONTINUED (2)	47:10,14;48:19;55:5,9
Center (7)	9:14;10:7;11:8;19:11	4:6,7	date (12)
61:20;62:1,6,12;63:9,17;	communicated (1)	Continues (2)	14:15;16:12,14;21:8;
65:7	13:2	6:1;7:12	22:11,21;28:1;33:14;42:14;
central (1)	communicating (2)	control (1)	46:20;47:2;62:13
45:14	12:9;14:4	2:10	dated (3)
certain (3)	communication (1)	converted (4)	5:11,15;59:19
19:11,12;59:18	9:5 Company (1)	20:11;31:10;32:18;37:9	dates (13)
cetera (1) 55:8	Company (1) 1:8	COOMBS (6)	8:21;10:6,12;15:11,20; 16:9,10,16;17:17;19:16;
change (2)	compare (1)	3:13;18:11;25:1;66:2;	23:2;25:10;26:1
6:5;7:7	42:19	67:4;68:2 <b>copied (4)</b>	DAVID (4)
	1 44.17	LUDICU (4)	DA VID (4)

6:8;7:1,10

changed (3)

complete (1)

31:14

**copy** (4)

37:21;38:2,4;42:13

day (14)

3:13;4:5;8:2,5

20:20;24:3,9,11;27:8;	domain (3)	entire (2)	familiar (1)
28:10;48:6;53:6,12,17,19;	11:17,20;15:16	45:7;54:1	40:7
54:3;62:18;63:10	double-click (1)	entirety (2)	far (4)
December (5)	39:1	15:8;32:15	14:6;30:19;31:17;47:10
17:12,13,14;46:2;64:2	down (5)	entries (1)	fast (1)
dedicated (1)	22:7;34:4;45:6;54:7;	21:9	53:3
53:8	58:12	equipment (1)	feature (2)
deemed (1)	Downey (1)	60:12	51:17;56:11
23:18	5:15	essentially (1)	February (3)
default (4)	download (2)	40:1	62:19;63:11,19
39:6,7,8,20	28:9;34:2	et (1)	feed (1)
defense (4)	downloaded (8)	55:8	2:7
6:9;13:5;44:9;54:5	22:3;23:19;28:2,3;34:11;	evidence (5)	FEIN (20)
demonstrate (2)	35:11;36:6;52:6	18:10;24:21;35:21;36:5;	3:4;5:6,7;6:6,14,17;7:6,9,
16:9;20:16	downloading (1)	50:7	12;8:1;26:10;59:15;60:4,9
Denise (1)	34:14	exactly (3)	15;61:2,6;67:3,15;68:1
1:18	downloads (1)	29:5;36:12;61:18	few (5)
Department (19)	26:5	exam (1)	11:9;22:1;36:17,19;37:1
14:19;18:16,18;19:4;	draft (1)	29:5	figure (3)
20:5;21:11;22:18;23:12;	2:13	EXAMINATION (9)	11:8,19;13:1
25:6;27:4;28:4;31:9,14;	due (1)	8:10;25:17;29:3,9,12;	file (27)
46:4,10;47:9,21;48:5;55:7	2:18	44:14;55:3,12;63:16	13:12;23:17,19;25:11;
depend (1)	duly (1)	examinations (1)	28:1;30:2,7;31:13;32:12;
48:18	8:6	9:12	34:11;35:1;36:11,11,12,15
depends (1)	E	examine (2)	37:20;38:3;42:9,10,13,19;
48:16	£	44:11;61:15	57:8;58:7;59:6;64:16,17,19
depicts (1) 42:4	continu (5)	examined (10) 8:8,12;9:7,18;18:17;	<b>filed (2)</b> 8:16;36:6
describe (6)	earlier (5) 8:11;37:2;52:5,18;60:20	20:14;29:4,6;39:11;63:3	6.10,30.0 files (27)
27:17;31:5;33:11;41:21;	early (1)	example (5)	10:1,4;12:10,12,12,13;
42:3;62:15	14:17	11:13;22:20;23:7;30:13;	19:19;25:9,20,21;27:3;28:3
describes (1)	easier (1)	31:7	9;29:17;30:4,6;31:9;34:3;
5:20	12:14	Excel (8)	47:19;59:4;61:15;62:13,14
descriptive (1)	easy (2)	12:14,15,19;20:12,13;	18,20;63:2;65:5
25:12	11:14;20:12	30:18,21;32:18	filtered (2)
desktop (4)	eaten (1)	excuse (1)	12:21;32:21
30:7;57:21;58:8;59:8	67:19	22:3	filtering (1)
destination (2)	editing (2)	excused (3)	12:20
8:21;47:7	2:9,16	66:4,11,11	<b>find</b> (3)
determine (3)	either (3)	executable (2)	29:19;50:7;65:3
11:4,6;53:20	19:6;21:8;22:15	57:8;58:7	findings (1)
device (1)	elicit (1)	Exhibit (41)	60:20
19:6	59:19	5:12,16;6:4,8,9,16,18,20;	Firefox (11)
disallowing (1)	ELLEN (1)	7:14,15,20;13:4,7;15:4,5;	38:16;39:6,8,12,18;
19:8	3:8	18:9,12;21:1,3;24:20;25:3;	55:20;56:1,14,19,21;57:4
DISCLAIMER (1)	else (2)	26:9,19;28:13,19;31:21;	firewall (21)
2:1	67:1,21	32:1;35:5,7;37:14;38:8,10;	19:2,5,14;20:1,7,16;
<b>discuss (2)</b> 66:12;67:13	employing (2) 56:8;57:3	41:5,7;43:7,9,13,14;44:2,6; 59:18	21:12,13,21;22:18;23:14, 17;25:13;46:5,7,11,14,17;
discussion (1)	enabled (1)	exhibits (4)	47:13,15,18
26:13	40:2	66:7,9,16,19	firewalls (3)
disk (1)	encode (1)	expected (5)	19:9;47:16,21
58:2	31:3	5:11,14;6:18;67:7,12	first (16)
DNS (1)	encoded (1)	explain (4)	5:10;8:6;12:20;17:4,6;
11:17	31:15	15:13;28:7;36:9;40:14	24:10;33:10;34:17;44:17;
document (16)	encoding (1)	Explorer (10)	61:20;62:9,18;63:8,10,12,
13:8,11;16:5,8;21:4,7;	31:2	30:1;35:15;39:9;51:3,16;	17
26:21;32:7,9,10,19;37:16,	end (2)	55:15,17;56:5,14,16	flexible (1)
19;38:1,4;41:8	17:14;18:5	_	61:9
documents (3)	ends (1)	$\mathbf{F}$	focus (1)
41:1;62:3;65:4	37:1		44:20
<b>DOD</b> (1)	enough (1)	failed (3)	folder (2)
9:5	45:21	48:10;54:12;55:10	40:17;41:1

T C Drauley E. Walling	0/20/13 After	noon Session	June 20, 2013
follow (1)	49:6	information (15)	22.21
follow (1)		information (15)	32:21
13:18	hash (1)	5:20;8:17;9:3,18;12:16,	keywords (1)
follows (1)	36:10	18;19:14;25:7;33:7;38:5;	33:15
8:9	Headquarters (2)	39:4,7;47:17;55:6;62:11	kind (7)
followup (4)	1:8,8	initials (2)	12:7;16:15;19:14;25:7;
55:1;58:18;59:10;65:20	Hearing (2)	7:3,4	30:15;53:2;62:11
form (3)	1:15;40:2	instead (1)	kinds (1)
12:11;20:7;31:3	held (1)	19:13	52:16
Fort (2)	1:16	institute (1)	knowledge (3)
1:11,17	help (1)	60:10	50:2;58:9;66:12
forward (1)	34:2	internal (1)	_
67:18	history (9)	12:2	$\mathbf{L}$
friendly (3)	29:17,19,19;32:11;39:9,	internet (19)	
11:10,12,18	17,21;50:19;51:21	29:17,18,19;30:1;31:16;	label (1)
front (1)	homepage (1)	32:11;34:5,20;35:15;38:15;	66:16
9:6	39:2	39:8;51:2,16,21;55:14,17;	large (12)
further (2)	Honor (33)	56:4,13,15	
			17:6,10,12,16,18,21;18:4;
8:8;64:18	5:10,14,18;7:13;13:17;	interrupt (1)	21:20;22:9;25:16;26:5;
	15:3;16:20;18:8,11;24:5,	6:2	45:21
${f G}$	19;25:1;26:11;28:12;33:1;	into (10)	larger (1)
	35:4,6;38:9;40:6;44:1,4;	5:9;18:9;20:12;24:21;	17:4
gallery (1)	51:5,9;55:2;59:11;60:4;	31:3;37:9;57:11,14;59:14;	last (4)
60:18	64:10;66:1,5,8,17,18;68:2	64:17	22:11;24:11;51:12;60:3
gap (12)	Honorable (1)	investigation (1)	later (3)
17:6,10,12,16,18,21;18:4;	1:17	35:20	29:2;36:19;52:7
22:12;45:2,5;54:6;55:9	hosting (1)	investigations (1)	least (3)
gaps (5)	19:3	9:8	23:1;34:17;35:14
17:5;25:16;44:21;55:5;	hours (6)	investigative (1)	left (4)
58:11	24:10,12;36:17,19,19;	12:4	13:19;27:20;47:9,12
Garrison (1)	52:7	IP (22)	less (1)
1:9	HUNTER (1)	10:5,11,11,12;11:5,10,10,	60:6
gave (1)	3:7	14,15,18,19;14:14;19:16;	likelihood (1)
54:2	HURLEY (4)	21:8;22:2,15;25:10;27:21;	58:10
general (2)	3:14;7:3,5,8	47:5,7;49:6,7	likely (2)
27:17;67:16	_	Iraq (2)	55:9;60:6
generally (4)	I	42:7;64:4	limits (1)
19:9,16;42:3;62:15		issue (2)	19:7
gigs (1)	Iceland (3)	23:15;54:8	Lind (1)
15:1	62:21;63:6,13	issues (2)	1:18
goes (3)	icon (1)	49:1;54:13	line (10)
	39:1	47.1,54.15	
9:6;39:2;64:12		J	14:13;27:21;33:10,13,20;
good (4)	identification (33)	J	34:4,7,12,17;42:15
9:13;31:3;44:15,16	7:15,21,21;13:4,7;15:4,6;		lined (1)
Google (2)	16:1,4;18:9,13;21:1,3;	James (1)	7:1
30:13;33:15	24:21;25:3;26:9,19;28:20;	5:15	lines (2)
Government (6)	31:21;32:4;35:5,8;37:13,	January (5)	27:11;33:7
2:4;3:3;15:3;44:8;60:3;	15;38:8,11;41:5,7;43:10,13,	14:17,18,18,18;63:21	list (3)
66:6	15;44:3,6	Joint (1)	50:8;57:12,16
government's (1)		1:10	
	identify (1)		listening (1)
60:4	66:18	JOSEPH (1)	2:7
	image (2)	3:5	little (4)
${f H}$	29:6,10	JOSHUA (1)	25:12;34:2;40:15;61:9
	imported (1)	3:15	live (1)
Hall (1)	20:12	Judge (1)	2:7
1:10	inaudible (5)	1:18	local (2)
handing (6)	2:18;29:11;31:9;35:11;	July (2)	30:4,6
13:6;21:2;26:18;32:2;	37:4	42:17;43:2	located (2)
		*	
37:13;43:14	INDEX (1)	June (5)	11:21;50:11
happen (2)	4:1	1:16;4:2;5:12,15;25:19	locations (1)
49:3;52:19	indexDAT (6)		29:21
happened (1)	30:2,3;32:12,15,18;35:1	K	log (21)
48:11	individual (2)		9:12;10:1,4;12:10,12;
happening (1)	23:19;46:7	keyword (1)	13:12;17:11;21:9;23:14,17;
			10.12,1.11,21.7,23.11,17,

I FC Brauley E. Maining	0/20/13 AIte1	noon session	June 20, 2013
25 0 20 21 27 2 27 6 45 6		2.17.15.10.16.10.16	(1.0.67.1.0.11.12.21
25:9,20,21;27:3;37:6;45:6;	malware (3)	2:17;15:10;16:10,16;	61:8;67:1,8,11,13,21
47:13;61:15;62:18;63:2;	9:12,14,16	17:18	needed (1)
65:12	MANNING (6)	misspelled (1)	57:17
logging (1)	1:6;41:11;58:15;62:5,9;	2:16	netflow (2)
55:7	65:2	misunderstood (1)	8:17,18
			I f
logical (1)	Manning's (3)	52:2	network (9)
52:13	7:4;63:18;64:3	mode (1)	9:4,5,15;12:3;16:15;47:1;
logs (55)	many (8)	39:17	48:21;54:8,13
8:12,16;9:7,13;12:5;	18:20;23:21;24:2,10,16;	moment (4)	newer (1)
14:11;15:9,10;16:10,11,13;	27:11;63:1,6	26:10;40:6;51:5;66:17	6:10
17:7;18:15,17,20;19:1,2,15;	March (12)	month (1)	next (1)
20:1,7,14,16;22:17,18;23:3;	22:2,5;23:8;24:9;31:19;	18:5	7:3
25:6,8,15,17,18;26:4;27:18;	34:10,17,18;35:2;49:13;	more (8)	nightshift (3)
28:6;44:18,21;45:2,14,19;	54:15,19	11:10;24:1;25:12;40:16;	53:12,17;54:3
46:17;47:18,21;53:9;54:6;	marked (17)	47:13;55:2;60:6;62:19	NIPR (3)
			` ′
55:8,8;58:11;61:19,21,21;	7:14;13:3,7;15:21;16:3;	MORROW (46)	49:9;50:7;51:13
62:12;63:9;64:14,20;65:10,	20:21;21:2;26:18;31:20;	3:5;8:10;13:16;15:2,7;	NIPRNET (4)
16	32:3;37:12,14;41:4,6;43:12,	16:19;17:2;18:8,14;21:15,	29:15;36:6;51:15;52:15
long (5)	14;59:17	18;24:5,8,19;25:4;26:14,17;	NIRP (3)
24:3;41:19;48:14,16;60:2	Maryland (1)	28:12,16,21;32:2,5;33:1,4;	50:10;54:14;55:16
longer (1)	1:17	35:4,9;38:7,12;43:6,11;	noon (3)
43:3	matched (1)	44:1,7;51:9;55:2,3,11;	67:10,17;68:4
look (6)	36:12	56:18;58:17;59:11;61:14;	normal (1)
27:18;34:7;42:15;53:11,	matter (1)	63:15;64:10;66:1,5,8,17	40:3
16,20	1:15	most (5)	notes (1)
looked (6)	max (1)	12:9;13:2;50:8;52:13;	2:15
10:1;12:5,6;39:12;43:18;	60:6	55:8	notice (1)
65:6	may (12)	mostly (1)	15:9
looking (4)	2:14;7:18;10:3;11:15;	67:15	November (5)
6:12,15;23:7;29:13	22:12;26:6;27:9;28:2,10;	move (7)	10:2;17:8,8,9;45:20
looks (2)	34:13;59:19;61:8	26:7,14;29:2;34:4,12;	number (18)
17:13;18:4	Maybe (2)	59:14;67:17	13:14;14:8;20:20;21:9,
lose (1)	10:8;53:7	moved (1)	10;22:9;23:15;26:5;27:6,
37:1	Meade (1)	36:6	21;33:13;44:21;47:4;48:3;
lot (8)	1:17	movement (1)	49:3;55:5;66:15,19
	mean (9)	36:14	numbers (2)
14:20;33:21,21;34:1;			` ′
47:9,12;48:6;53:8	9:16;11:12;14:9;16:13,	moves (9)	13:19,20
lots (1)	17;22:13;23:16;30:6;42:12	7:13;15:3;18:9;24:20;	
47:19	means (4)	28:13,16;35:5;38:7;43:6	0
lunch (4)	15:13;16:14;23:16;57:11	movie (4)	
6:7,20;67:16,20	measures (3)	43:2,4,5,21	oath (1)
0.7,20,07.10,20			
3.5	19:10;60:8,11	Mozilla (1)	8:2
${f M}$	mechanism (1)	38:16	objection (8)
	31:2	MRS (1)	7:17;18:11;25:1;28:18;
ma'am (31)	media (1)	28:4	35:6;38:9;43:8;44:4
6:6,14,17;7:5,8,17;23:10;	2:6	much (3)	observe (3)
	1 -		
40:20;43:8;44:13;51:15;	Members (1)	34:20;43:3;57:21	26:3;34:21;35:17
52:4,17;53:8;54:9,21;	60:17	Murder (2)	observed (9)
56:15;59:12,15;60:9,15,16;	mentioned (2)	40:8;41:16	17:5,6,11;21:21;23:1;
61:6,7;64:15;65:14;66:2;	37:1;49:12	Myer (1)	30:16;35:14;62:16;63:2
67:3,4,15;68:1	meta-data (1)	1:11	observing (2)
machine (14)	47:20	Myer-Henderson (1)	27:18;33:12
37:10;45:17;48:4;49:18,	method (1)	1:10	obtain (1)
21;50:3,6,7,10;55:16,19,20;	48:17		39:17
57:7,8	middle (2)	N	occur (1)
machines (1)	18:5;42:15		61:10
55:19	military (1)	name (9)	occurred (1)
			, ,
maintained (1)	43:4	11:11,12,17,18,20;37:7,	36:15
39:21	minute (1)	11;62:8,13	off (2)
MAJOR (5)	60:10	names (2)	13:21;26:13
3:4,14;5:6;7:3;61:2	minutes (3)	2:16;13:13	offers (1)
Malicious (1)	41:20;60:6;61:11	need (12)	5:8
		11004 (14)	5.0
9:17	missing (5)	15.16 17.59.1 5.60.7 14.	Office (1)

9:17

missing (5)

15:16,17;59:1,5;60:7,14;

Office (1)

I FC Brauley E. Maining	0/20/13 After	Hoon Session	June 20, 2013
50.5	OVEDCARD (1)		2.6 10.5.1.50.10
59:5	OVERGARD (1)	pick (1)	2:6,10;5:1;59:19
official (1)	38:10	30:16	process (5)
2:4	own (1)	piece (1)	24:17;29:8;48:13;58:5,7
old (1)	8:15	19:7	produce (1)
6:16		place (3)	2:10
older (2)	P	2:6;60:8;61:3	proffered (1)
56:12,16		placed (1)	61:2
once (3)	Page (12)	37:21	profile (12)
12:18;20:13;66:11	4:5;6:7,21;17:3,16;18:1,	placing (1)	32:12;33:15;36:13;39:15,
one (27)	2,3;27:5,6,7,14	58:7	16;40:12,15,17,21;49:14,
6:16;9:13;12:20;14:21;		Plaintiffs (1)	15;54:16
	pages (2)		
19:2,3;24:1,3;27:5;30:18;	27:9,15	66:18	profiles (3)
31:13;34:4;40:6;41:18;	panel (1)	plan (1)	34:14;39:19;54:20
48:5,6,13;51:5;53:6;54:5;	26:7	12:4	program (7)
55:2;56:1;58:18;61:21;	paragraph (2)	Please (9)	41:12;52:11,21;57:12,14,
62:9,10;66:17	6:21;7:9	5:3;7:18;26:8;28:7;36:9;	16;59:4
one-page (1)	part (5)	40:14;44:5;51:5;66:12	programs (1)
27:3	8:12;9:7;12:1,2;28:15	pm (2)	59:5
ones (1)	particular (5)	1:16;61:13	prohibitions (1)
25:13	45:8;49:18,21;50:3;65:15	point (2)	51:4
only (6)	parties (3)	20:14;44:10	propagate (1)
19:13;25:18;30:1;51:16;	5:4;67:5,11	pointing (1)	9:15
55:16;59:21		42:7	Prosecution (51)
	passing (1)		
open (14)	21:14	port (2)	5:12,16;6:3,8,9,15,17,19;
39:5;50:14;61:20;62:1,2,	password (2)	19:12,13	7:14,15,20;13:4,7;15:4,5;
6,12;63:9,17;64:19;65:6;	37:7,11	portion (4)	16:1,4;18:8,12;21:1,2;
66:7,16,20	pattern (2)	5:19,21;60:19;61:1	24:19,20;25:2;26:8,19;
opens (2)	20:17;21:20	ports (1)	28:12,13,16,19;31:21;32:1,
39:2;65:11	patterns (2)	19:12	3;35:4,7;37:13,14;38:7,8,
operating (1)	12:6;20:18	possible (7)	10;41:5,6;43:6,7,9,13,14;
50:4	Pause (2)	45:5;48:9,12;49:2,5;	44:1,2,6;66:9
option (5)	7:19;51:6	52:10;54:10	protocol (1)
51:3;56:4,7,17,20	<b>PDF</b> (1)	precision (1)	40:3
options (1)	20:9	61:9	protocols (1)
56:1	PDFs (1)	present (9)	10:7
order (5)	20:10	5:4;16:9,12;22:21,21;	provided (1)
2:10;5:4;40:1;59:17;		35:21;40:13;41:2;56:17	5:19
	people (1)		
60:10	50:16	Presumably (1)	public (2)
ordered (2)	per (1)	50:17	60:18;61:1
14:5;59:18	20:20	pretty (2)	public's (1)
organizations (1)	period (2)	46:17;57:20	67:16
19:9	22:15;54:1	prevent (1)	publish (4)
Orwellian (1)	periods (1)	56:8	13:16;16:19;21:15;33:2
42:5	15:19	prevented (1)	publisher (1)
OSC (2)	permanently (1)	57:3	41:13
43:5;61:20	66:3	previous (2)	pulls (1)
OSC_YouTube-cm (1)	Permission (4)	9:11;59:17	64:13
42:20	13:16;16:19;21:15;33:1	previously (1)	purposes (3)
OSC_YouTube-CMwmv (2)	permitted (2)	8:6	2:9,16;35:5
41:18;43:21	2:5,8	printed (1)	pursuant (2)
others (2)	person (2)	27:8	59:16;60:19
19:8,13	24:15;57:19	prior (3)	put (10)
out (11)	personal (1)	6:7,20;25:19	12:14,15;57:7,8,15,18,21;
	51:21		
7:1;11:8,19;13:1;27:7;		private (11)	59:3,6;60:8
29:10;37:21;38:2;42:7;	pertaining (3)	39:16;40:2;51:1,14,17,	•
50:14;60:11	10:1;65:4,17	20;55:14;56:2,8,20;57:3	Q
outlines (1)	PFC (7)	privilege (1)	
2:14	1:6;7:4;58:15;62:5;	59:5	quicker (1)
over (5)	63:18;64:3;65:2	privileges (4)	34:2
14:21;24:9;31:14;38:4;	physical (1)	57:15,17;58:21;59:2	quickly (2)
63:4	19:6	proceed (1)	49:3;52:19
OVERGAARD (1)	physically (1)	5:6	quite (1)
3:6	50:11	proceedings (4)	64:6
		• 0 1	

quote (1) 42:6	49:19 reinstalled (1)	Rock (1) 5:11	sensors (1) 9:4
72.0	50:4	role (1)	server (18)
R	related (1)	9:11	10:21;11:2;15:18,18;
N.	64:4		
(2)		Ronald (1)	19:3,12;20:6;21:11,12;25:6,
range (2)	remainder (1)	5:11	7,15,17,18;26:4;27:4;46:11;
14:15;61:11	44:7	room (1)	48:14
rather (1)	remaining (1)	2:6	servers (2)
5:18	5:19	roughly (1)	13:14;48:5
read (1)	remember (4)	61:3	service (2)
5:8	11:13,14,16;65:16	rule (1)	11:17,20
readily (1)	remote (6)	60:20	session (5)
65:7	13:14;14:3,14;20:4;	run (5)	44:9;59:14,16;60:3;61:2
Reading (5)	25:10;27:21	34:2;58:2;59:1,3,7	set (4)
5:13,17,18;6:1;7:12	remove (1)	a	7:2;19:2;48:1;61:21
ready (3)	23:5	S	sets (2)
5:6,7;59:13	removed (1)		18:20;61:19
really (4)	37:20	S2 (1)	setting (1)
9:13;14:5;46:20;53:7	reopening (1)	58:5	51:1
reason (1)	60:21	same (5)	settings (1)
55:9	repetitive (1)	22:8;36:12;46:2;52:16;	38:15
reasons (2)	53:3	63:14	several (6)
51:21;55:5	reporter (5)	Sane (1)	15:11,19;29:21;30:17;
recall (6)	2:4,4,15,19;60:11	41:2	41:12;52:7
14:15;49:20;54:21;63:1,	reporting (1)	save (1)	SHAVER (20)
8;65:5	2:14	39:7	4:5;8:2,5,11;13:6;17:3;
recess (8)	requested (1)	saves (1)	21:19;25:5;26:14;29:1;
6:7,21;60:8,10,14;61:12;	25:11	39:8	32:6;33:5;36:21;38:13;
67:17;68:3	requests (2)	saw (3)	44:17;51:10;55:4,13;59:20;
recesses (1)	59:16;60:10	22:16;52:6,7	64:11
67:9	require (1)	saying (2)	Shaver's (1)
recession (1)	58:21	23:11;51:13	44:8
61:11	reside (1)	scene (1)	shortly (1)
recognize (7)	59:5	42:6	36:17
13:8;16:5;21:4;26:21;	resolve (1)	scheduling (3)	shot (2)
32:6;37:16;41:8	11:10	67:2,6,14	41:11;42:16
reconvened (1)	resolves (1)	SCIF (1)	show (9)
61:13	11:18	50:12	15:21;16:9;17:3,15;18:3;
record (3)	respect (4)	screen (2)	37:12;43:12;53:18,21
5:4,9;26:13	5:9;14:13;45:19;67:13	41:11;42:16	showed (1)
recording (1)	response (2)	search (8)	20:3
2:8	41:14;54:5	34:5;39:5;63:8,12,17;	showing (8)
RECROSS (1)	restrictions (1)	64:14;65:12,18	13:3,5;16:3;20:21;31:20;
4:7	50:21	searched (4)	41:4,6,12
REDIRECT (3)	retrieve (1)	33:15;62:14;64:4;65:2	shows (7)
4:6;51:8;64:9	26:8	searches (10)	12:6;18:1;21:7;23:14;
reference (1)	returned (1)	30:12,12,15;62:19,20;	33:14;42:6;62:4
59:20	26:16	63:1,5,6;64:12;65:6	side (4)
referring (1)	reverse (1)	seated (1)	10:8;11:1,5,7
41:17	11:18	5:3	sign (1)
reflect (1)	review (5)	second (5)	34:1
5:4	12:14;15:2,8;20:12;50:6	6:3;17:10;52:3;61:21;	SIPR (2)
reflected (1)	reviewed (1)	62:9	54:7;58:20
6:7	65:13	section (1)	SIPRnet (12)
register (1)	<b>Right</b> (17)	58:5	12:2;29:1;31:7;36:16;
37:20	6:21;7:2;14:1,6;25:2;	security (1)	37:3,6;45:6,7,8,13,17;52:14
	27:20;29:18;49:13;59:13;	19:10	site (1)
registry (1) 38:3	60:7,13,17;61:5,8;66:10,21;		65:5
	68:3	seeing (2)	
regular (1)		9:13;22:17	skip (1)
52:15	rights (1)	segment (4)	5:20
regularly (1)	57:20	13:12;32:11,16,17	slashed (1)
15:17	rise (1)	sense (1)	7:10
reimaged (1)	5:2	2:17	small (4)

PFC Bradley E. Manning	0/20/13 After	rnoon Session	June 26, 2013
12.12.22.11 16 17	7:12	tootimony (12)	tuonofound (12)
13:12;32:11,16,17		testimony (12)	transferred (13)
software (2)	stipulations (3)	2:18;5:9,11,15;6:18;44:8;	9:1;10:19;12:7,21;13:15;
9:17;19:7	5:8;67:7,12	58:19;59:20;65:10;66:12;	14:2;15:1;19:19,19;20:19;
somebody (1)	stop (3)	67:8,12	45:21;47:20;48:19
24:2	32:13;46:7,15	thinking (1)	transition (2)
someone (3)	store (1)	61:3	18:15;46:4
34:14;38:20;64:11	39:4	THOMAS (1)	translated (1)
sorry (3)	stuff (3)	3:14	2:15
40:20;50:5;58:6	62:3;65:7,7	Thousands (1)	treat (1)
sort (4)	submit (1)	27:16	32:17
18:4;22:7,12;27:17	44:2	three (2)	trial (4)
sorted (1)	sub-text (1)	5:8;35:11	60:19;61:1,13;66:14
14:1	42:7	throughout (1)	trick (1)
sound (1)	summary (2)	9:4	38:20
61:5	13:12;21:8	tie (1)	true (1)
source (16)	supposed (1)	37:1	46:2
8:20;11:5;21:8;43:3,4;	6:12	timeframe (1)	truth (3)
47:5;49:6,7;61:20;62:1,2,6,	sure (8)	22:17	8:7,7,8
12;63:9,17;65:6	19:10;23:16;29:10;45:9;	times (9)	trying (2)
space (1)	47:15;51:11;58:19;65:9	8:21;10:7,13;19:16;	11:4,6
31:13	surf (1)	23:13,18,21;25:10;53:20	turn (1)
speaking (1)	39:3	timeserver (1)	39:16
56:13	swap (1)	15:18	two (9)
SPECIAL (7)	60:11	timing (1)	8:19;10:4,21;14:11;
4:5;5:11;8:1,11;52:21;	switch (1)	67:1	18:21;23:21;33:19;61:19;
59:20;64:11	49:9	today (2)	62:7
specific (2)	switches (1)	67:1,9	type (1)
24:6;59:19	33:21	told (1)	22:8
specifically (2)	sworn (1)	50:12	types (1)
9:19;38:16	8:7	tomorrow (4)	47:17
specification (2)	system (1)	66:19;67:10,17;68:4	
59:21,21	50:4	tomorrow's (1)	$\mathbf{U}$
specificity (1)		67:6	
specificity (1) 40:16	T	67:6 took (1)	ultimately (1)
specificity (1) 40:16 speed (1)	T	67:6 took (1) 2:6	ultimately (1) 48:11
<pre>specificity (1)     40:16 speed (1)     48:21</pre>	T table (3)	67:6 took (1) 2:6 tool (5)	ultimately (1) 48:11 Um (1)
specificity (1) 40:16 speed (1) 48:21 spoke (5)	T table (3) 5:18,20;47:10	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5	ultimately (1) 48:11 Um (1) 24:4
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18;	T table (3) 5:18,20;47:10 talk (7)	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15)	ultimately (1) 48:11 Um (1) 24:4 uncertified (1)
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10;	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6;	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14;	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3)
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1) 12:19	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7)	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7;	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1) 12:19 standard (1)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14;	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1)
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1) 12:19 standard (1) 25:9	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3)	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1) 12:19 standard (1) 25:9 start (2)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3)	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1)
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1) 12:19 standard (1) 25:9 start (2) 67:17,20	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3)	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1) 12:19 standard (1) 25:9 start (2) 67:17,20 started (2)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1)	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8)
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1) 12:19 standard (1) 25:9 start (2) 67:17,20 started (2) 12:20;31:19	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1)	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1;
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1) 12:19 standard (1) 25:9 start (2) 67:17,20 started (2) 12:20;31:19 starts (1)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1)	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1) 12:19 standard (1) 25:9 start (2) 67:17,20 started (2) 12:20;31:19 starts (1) 42:5	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1)	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9)
specificity (1)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1)	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10;
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1) 12:19 standard (1) 25:9 start (2) 67:17,20 started (2) 12:20;31:19 starts (1) 42:5 State (19) 14:19;18:16,18;19:4;	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1)	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1) 12:19 standard (1) 25:9 start (2) 67:17,20 started (2) 12:20;31:19 starts (1) 42:5 State (19) 14:19;18:16,18;19:4; 20:5;22:18;23:12;25:6;	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3 Temporarily (2)	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1) 18:5	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13 update (1)
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1) 12:19 standard (1) 25:9 start (2) 67:17,20 started (2) 12:20;31:19 starts (1) 42:5 State (19) 14:19;18:16,18;19:4; 20:5;22:18;23:12;25:6; 27:4;28:4;31:9,14;46:5,11;	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3 Temporarily (2) 66:10,11	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1) 18:5 track (3)	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13 update (1) 15:18
specificity (1) 40:16 speed (1) 48:21 spoke (5) 44:17;46:5;48:3;50:18; 52:18 spreadsheet (1) 12:19 standard (1) 25:9 start (2) 67:17,20 started (2) 12:20;31:19 starts (1) 42:5 State (19) 14:19;18:16,18;19:4; 20:5;22:18;23:12;25:6; 27:4;28:4;31:9,14;46:5,11; 47:9,21;48:5;55:7;66:7	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3 Temporarily (2) 66:10,11 Temporary (2)	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1) 18:5 track (3) 64:14,21;65:10	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13 update (1) 15:18 use (5)
specificity (1)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3 Temporarily (2) 66:10,11 Temporary (2) 66:3,5	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1) 18:5 track (3)	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13 update (1) 15:18
specificity (1)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3 Temporarily (2) 66:10,11 Temporary (2)	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1) 18:5 track (3) 64:14,21;65:10	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13 update (1) 15:18 use (5)
specificity (1)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3 Temporarily (2) 66:10,11 Temporary (2) 66:3,5	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1) 18:5 track (3) 64:14,21;65:10 traffic (3)	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13 update (1) 15:18 use (5) 10:4;19:9;38:19;40:21;
specificity (1)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3 Temporarily (2) 66:10,11 Temporary (2) 66:3,5 ten (3)	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1) 18:5 track (3) 64:14,21;65:10 traffic (3) 8:19;19:7,8	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13 update (1) 15:18 use (5) 10:4;19:9;38:19;40:21; 49:7
specificity (1)	table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3 Temporarily (2) 66:10,11 Temporary (2) 66:3,5 ten (3) 13:19;14:2,3	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1) 18:5 track (3) 64:14,21;65:10 traffic (3) 8:19;19:7,8 transcript (3) 2:3,11,14	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13 update (1) 15:18 use (5) 10:4;19:9;38:19;40:21; 49:7 used (4) 10:7;28:8;31:4;35:17
specificity (1)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3 Temporarily (2) 66:10,11 Temporary (2) 66:3,5 ten (3) 13:19;14:2,3 term (1) 65:12	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1) 18:5 track (3) 64:14,21;65:10 traffic (3) 8:19;19:7,8 transcript (3)	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13 update (1) 15:18 use (5) 10:4;19:9;38:19;40:21; 49:7 used (4) 10:7;28:8;31:4;35:17 user (41)
specificity (1)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3 Temporarily (2) 66:10,11 Temporary (2) 66:3,5 ten (3) 13:19;14:2,3 term (1) 65:12 terms (2)	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1) 18:5 track (3) 64:14,21;65:10 traffic (3) 8:19;19:7,8 transcript (3) 2:3,11,14 transcripts (1) 62:3	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13 update (1) 15:18 use (5) 10:4;19:9;38:19;40:21; 49:7 used (4) 10:7;28:8;31:4;35:17 user (41) 30:16;31:18;32:12;33:14;
specificity (1)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3 Temporarily (2) 66:10,11 Temporary (2) 66:3,5 ten (3) 13:19;14:2,3 term (1) 65:12 terms (2) 2:16;27:17	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1) 18:5 track (3) 64:14,21;65:10 traffic (3) 8:19;19:7,8 transcript (3) 2:3,11,14 transcripts (1) 62:3 Transfer (6)	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13 update (1) 15:18 use (5) 10:4;19:9;38:19;40:21; 49:7 used (4) 10:7;28:8;31:4;35:17 user (41) 30:16;31:18;32:12;33:14; 34:14;35:10,11;36:13;37:6,
specificity (1)	table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3 Temporarily (2) 66:10,11 Temporary (2) 66:3,5 ten (3) 13:19;14:2,3 term (1) 65:12 terms (2) 2:16;27:17 testified (5)	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1) 18:5 track (3) 64:14,21;65:10 traffic (3) 8:19;19:7,8 transcript (3) 2:3,11,14 transcripts (1) 62:3 Transfer (6) 10:18;13:21;14:16;45:11;	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13 update (1) 15:18 use (5) 10:4;19:9;38:19;40:21; 49:7 used (4) 10:7;28:8;31:4;35:17 user (41) 30:16;31:18;32:12;33:14; 34:14;35:10,11;36:13;37:6, 7,10;38:19;39:15;40:3,12,
specificity (1)	T  table (3) 5:18,20;47:10 talk (7) 17:4;25:5;29:1,18;33:10; 38:13,15 talked (7) 44:20;48:5;55:4,13,14; 57:6;67:5 talking (3) 27:14;51:19,20 target (1) 61:11 task (1) 53:3 television (1) 62:3 Temporarily (2) 66:10,11 Temporary (2) 66:3,5 ten (3) 13:19;14:2,3 term (1) 65:12 terms (2) 2:16;27:17	67:6 took (1) 2:6 tool (5) 11:21;28:8;33:20;53:2,5 TOOMAN (15) 3:15;7:17;28:18;35:6; 38:9;43:8;44:4,13,14; 55:12;59:12;60:16;61:7; 63:16;64:8 top (3) 6:21;14:2;17:17 total (3) 27:14;63:1,5 totaling (1) 55:8 totals (1) 63:6 towards (1) 18:5 track (3) 64:14,21;65:10 traffic (3) 8:19;19:7,8 transcript (3) 2:3,11,14 transcripts (1) 62:3 Transfer (6)	ultimately (1) 48:11 Um (1) 24:4 uncertified (1) 2:13 under (3) 8:2;31:18;60:20 understood (1) 51:11 unedited (1) 2:13 UNITED (8) 1:2,4;5:7,8;7:13;8:1; 59:15;60:9 up (9) 13:18;30:16;37:1,10; 39:2;48:1;51:1;53:18;64:13 update (1) 15:18 use (5) 10:4;19:9;38:19;40:21; 49:7 used (4) 10:7;28:8;31:4;35:17 user (41) 30:16;31:18;32:12;33:14; 34:14;35:10,11;36:13;37:6,

Tre bradiey E. Manning	0/20/13 After	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Julie 20, 2013
51.14 19.50.11 20 20.52.4	(2)	49.21	21.21.22.2 2.25.5 7
51:14,18;52:11,20,20;53:4,	ways (2)	48:21	31:21;32:2,3;35:5,7
5;54:16,19;56:8;57:3,14;	11:9;52:10	worry (1)	158 (3)
59:7;62:8,13,16;63:18;64:3,	web (16)	48:20	26:9,19;28:13
12;65:11,11	19:3,12;38:16,18,19;39:3,		159 (4)
users (1)	4,5,9,12,14;40:4;50:18;	X	21:1,3;24:20;25:3
39:18	55:16;62:3;65:8		159,000 (1)
user's (2)	website (3)	XML (1)	48:7
45:8;54:7	23:12;34:11;62:2	31:3	<b>16:00</b> (1)
using (3)	websites (2)	xxx-xx-9504 (1)	61:4
24:15;26:6;52:20	30:5,9	1:7	160 (2)
utility (1)	Wednesday (1)		13:4,7
26:6	1:16	$\mathbf{Y}$	161 (4)
utilized (1)	weren't (2)		16:1,4;18:9,12
38:20	46:18;48:1	YouTube (1)	164 (7)
	Wget (19)	43:5	6:9,13;7:1,10,15,16,21
${f V}$	26:6;28:5,6,8;30:17;		165 (6)
<u>'</u>	32:21;33:15,17;34:5;35:11,	${f Z}$	15:4,5;41:5,7;43:7,9
VA (1)		L	166 (1)
VA (1)	17,21;36:5,11;52:6,11;57:6;	7 (1)	
1:11	58:20;59:7	Zone (1)	66:9
value (1)	Wgetexe (2)	42:17	167 (1)
36:10	34:11,15		66:9
van (1)	what's (13)	0	168 (4)
3:8	13:3,6;14:5;15:21;21:2;		43:13,15;44:2,6
verbatim (1)	26:18;27:5;32:3;33:19;	07 (2)	17 (3)
2:11	37:14;41:4;43:12,14	42:17;43:2	5:15;27:13;41:20
verified (1)	Whereupon (1)	42.17,43.2	3.13,27.13,41.20
		1	2
29:11	8:4	1	<u> </u>
version (2)	whole (2)		
56:6,16	8:7;33:6	1 (2)	2 (5)
versus (1)	whose (1)	17:4;33:13	14:18;18:1,3;59:21;60:1
53:17	13:1	1:22 (1)	2,100 (1)
video (11)	WHYTE (1)	1:16	36:19
		· · · ·	
10·7 10 13·11·2 16 16 19	3.7	100 000 (1)	2.40(1)
40:7,10,13;41:2,16,16,19,	3:7 Wikilooks (0)	100,000 (1)	2:49 (1)
21;42:16;43:3;45:21	Wikileaks (9)	31:14	61:12
21;42:16;43:3;45:21 <b>videos (4)</b>	Wikileaks (9) 30:18;50:8;62:20;63:2,9;	31:14 <b>106,000 (1)</b>	61:12 <b>20 (4</b> )
21;42:16;43:3;45:21 <b>videos (4)</b> 40:18;41:1,12,12	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18	31:14 <b>106,000</b> (1) 14:21	61:12 <b>20 (4)</b> 60:10;61:11;63:4,11
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6)	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2)	31:14 106,000 (1) 14:21 11 (1)	61:12 <b>20</b> ( <b>4</b> ) 60:10;61:11;63:4,11 <b>2009</b> ( <b>3</b> )
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16;	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9	31:14 <b>106,000</b> (1) 14:21	61:12 <b>20 (4)</b> 60:10;61:11;63:4,11
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6)	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2)	31:14 106,000 (1) 14:21 11 (1) 24:12	61:12 <b>20</b> ( <b>4</b> ) 60:10;61:11;63:4,11 <b>2009</b> ( <b>3</b> )
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1)	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4)	61:12 <b>20 (4)</b> 60:10;61:11;63:4,11 <b>2009 (3)</b> 10:2;45:20;46:2 <b>2010 (16)</b>
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2)	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2	61:12 <b>20 (4)</b> 60:10;61:11;63:4,11 <b>2009 (3)</b> 10:2;45:20;46:2 <b>2010 (16)</b> 10:3;14:17;22:2,12,12;
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1)	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1)	61:12 <b>20 (4)</b> 60:10;61:11;63:4,11 <b>2009 (3)</b> 10:2;45:20;46:2 <b>2010 (16)</b> 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13,
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1)	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10	61:12 <b>20 (4)</b> 60:10;61:11;63:4,11 <b>2009 (3)</b> 10:2;45:20;46:2 <b>2010 (16)</b> 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19;
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11)	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1)	61:12 <b>20 (4)</b> 60:10;61:11;63:4,11 <b>2009 (3)</b> 10:2;45:20;46:2 <b>2010 (16)</b> 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2)	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19;	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5)
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21;	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8)	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1)	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16;	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3)
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41)	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8)	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16;	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3)
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1)	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41)	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4)	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41) 4:5;8:3,6;16:3;21:2; 23:10,14;24:4,17;26:15,16;	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41) 4:5;8:3,6;16:3;21:2; 23:10,14;24:4,17;26:15,16; 30:21;32:2;37:14;40:20;	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6)	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1)
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41) 4:5;8:3,6;16:3;21:2; 23:10,14;24:4,17;26:15,16; 30:21;32:2;37:14;40:20; 51:15;52:1,4,9,13,17;53:1,	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2;	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5  W  walking (1) 50:16	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41) 4:5;8:3,6;16:3;21:2; 23:10,14;24:4,17;26:15,16; 30:21;32:2;37:14;40:20; 51:15;52:1,4,9,13,17;53:1, 7,13,15,18;54:8,12,17,21;	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2; 52:18;53:5	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5 22 (33)
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5  W  walking (1) 50:16 wants (1)	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41) 4:5;8:3,6;16:3;21:2; 23:10,14;24:4,17;26:15,16; 30:21;32:2;37:14;40:20; 51:15;52:1,4,9,13,17;53:1, 7,13,15,18;54:8,12,17,21; 55:10;56:15;59:1,9;64:15,	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2; 52:18;53:5 15 (1)	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5 22 (33) 10:2;11:6,7;12:8;14:3,12;
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5  W  walking (1) 50:16 wants (1) 44:9	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41) 4:5;8:3,6;16:3;21:2; 23:10,14;24:4,17;26:15,16; 30:21;32:2;37:14;40:20; 51:15;52:1,4,9,13,17;53:1, 7,13,15,18;54:8,12,17,21; 55:10;56:15;59:1,9;64:15, 19;65:1,4,14,17,19	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2; 52:18;53:5 15 (1) 34:12	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5 22 (33) 10:2;11:6,7;12:8;14:3,12; 20:5;21:8;22:3,5;23:9,10;
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5  W  walking (1) 50:16 wants (1) 44:9 warning (4)	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41) 4:5;8:3,6;16:3;21:2; 23:10,14;24:4,17;26:15,16; 30:21;32:2;37:14;40:20; 51:15;52:1,4,9,13,17;53:1, 7,13,15,18;54:8,12,17,21; 55:10;56:15;59:1,9;64:15, 19;65:1,4,14,17,19 word (2)	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2; 52:18;53:5 15 (1)	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5 22 (33) 10:2;11:6,7;12:8;14:3,12; 20:5;21:8;22:3,5;23:9,10; 26:6;28:1;31:8;36:4,7,13,
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5  W  walking (1) 50:16 wants (1) 44:9	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41) 4:5;8:3,6;16:3;21:2; 23:10,14;24:4,17;26:15,16; 30:21;32:2;37:14;40:20; 51:15;52:1,4,9,13,17;53:1, 7,13,15,18;54:8,12,17,21; 55:10;56:15;59:1,9;64:15, 19;65:1,4,14,17,19 word (2) 2:16;38:4	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2; 52:18;53:5 15 (1) 34:12	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5 22 (33) 10:2;11:6,7;12:8;14:3,12; 20:5;21:8;22:3,5;23:9,10;
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5  W  walking (1) 50:16 wants (1) 44:9 warning (4)	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41) 4:5;8:3,6;16:3;21:2; 23:10,14;24:4,17;26:15,16; 30:21;32:2;37:14;40:20; 51:15;52:1,4,9,13,17;53:1, 7,13,15,18;54:8,12,17,21; 55:10;56:15;59:1,9;64:15, 19;65:1,4,14,17,19 word (2)	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2; 52:18;53:5 15 (1) 34:12 152 (7) 6:4,8;7:1,9,15,16,20	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5 22 (33) 10:2;11:6,7;12:8;14:3,12; 20:5;21:8;22:3,5;23:9,10; 26:6;28:1;31:8;36:4,7,13,
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5  W  walking (1) 50:16 wants (1) 44:9 warning (4) 29:2;37:2,21;38:2 watched (2)	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41) 4:5;8:3,6;16:3;21:2; 23:10,14;24:4,17;26:15,16; 30:21;32:2;37:14;40:20; 51:15;52:1,4,9,13,17;53:1, 7,13,15,18;54:8,12,17,21; 55:10;56:15;59:1,9;64:15, 19;65:1,4,14,17,19 word (2) 2:16;38:4 words (2)	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2; 52:18;53:5 15 (1) 34:12 152 (7) 6:4,8;7:1,9,15,16,20 154 (1)	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5 22 (33) 10:2;11:6,7;12:8;14:3,12; 20:5;21:8;22:3,5;23:9,10; 26:6;28:1;31:8;36:4,7,13, 14,20;37:1,20;38:3;39:11, 18;40:21;48:4;52:8,12,14;
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5  W  walking (1) 50:16 wants (1) 44:9 warning (4) 29:2;37:2,21;38:2 watched (2) 41:21;42:16	Wikileaks (9)     30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2)     15:16;25:9 wiped (1)     50:1 Wire (1)     61:21 within (11)     30:1;31:12;36:12;37:19;     39:15;40:12,15,17,21;     56:20;58:5 WITNESS (41)     4:5;8:3,6;16:3;21:2;     23:10,14;24:4,17;26:15,16;     30:21;32:2;37:14;40:20;     51:15;52:1,4,9,13,17;53:1,     7,13,15,18;54:8,12,17,21;     55:10;56:15;59:1,9;64:15,     19;65:1,4,14,17,19 word (2)     2:16;38:4 words (2)     8:15;64:16	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2; 52:18;53:5 15 (1) 34:12 152 (7) 6:4,8;7:1,9,15,16,20 154 (1) 66:9	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5 22 (33) 10:2;11:6,7;12:8;14:3,12; 20:5;21:8;22:3,5;23:9,10; 26:6;28:1;31:8;36:4,7,13, 14,20;37:1,20;38:3;39:11, 18;40:21;48:4;52:8,12,14; 55:19;57:7,8
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5  W  walking (1) 50:16 wants (1) 44:9 warning (4) 29:2;37:2,21;38:2 watched (2) 41:21;42:16 watching (1)	Wikileaks (9)     30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2)     15:16;25:9 wiped (1)     50:1 Wire (1)     61:21 within (11)     30:1;31:12;36:12;37:19;     39:15;40:12,15,17,21;     56:20;58:5 WITNESS (41)     4:5;8:3,6;16:3;21:2;     23:10,14;24:4,17;26:15,16;     30:21;32:2;37:14;40:20;     51:15;52:1,4,9,13,17;53:1,     7,13,15,18;54:8,12,17,21;     55:10;56:15;59:1,9;64:15,     19;65:1,4,14,17,19 word (2)     2:16;38:4 words (2)     8:15;64:16 work (1)	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2; 52:18;53:5 15 (1) 34:12 152 (7) 6:4,8;7:1,9,15,16,20 154 (1) 66:9 155 (4)	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5 22 (33) 10:2;11:6,7;12:8;14:3,12; 20:5;21:8;22:3,5;23:9,10; 26:6;28:1;31:8;36:4,7,13, 14,20;37:1,20;38:3;39:11, 18;40:21;48:4;52:8,12,14; 55:19;57:7,8 22211 (1)
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5  W  walking (1) 50:16 wants (1) 44:9 warning (4) 29:2;37:2,21;38:2 watched (2) 41:21;42:16 watching (1) 2:7	Wikileaks (9)     30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2)     15:16;25:9 wiped (1)     50:1 Wire (1)     61:21 within (11)     30:1;31:12;36:12;37:19;     39:15;40:12,15,17,21;     56:20;58:5 WITNESS (41)     4:5;8:3,6;16:3;21:2;     23:10,14;24:4,17;26:15,16;     30:21;32:2;37:14;40:20;     51:15;52:1,4,9,13,17;53:1,     7,13,15,18;54:8,12,17,21;     55:10;56:15;59:1,9;64:15,     19;65:1,4,14,17,19 word (2)     2:16;38:4 words (2)     8:15;64:16 work (1)     33:17	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2; 52:18;53:5 15 (1) 34:12 152 (7) 6:4,8;7:1,9,15,16,20 154 (1) 66:9 155 (4) 37:13,14;38:8,10	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5 22 (33) 10:2;11:6,7;12:8;14:3,12; 20:5;21:8;22:3,5;23:9,10; 26:6;28:1;31:8;36:4,7,13, 14,20;37:1,20;38:3;39:11, 18;40:21;48:4;52:8,12,14; 55:19;57:7,8 22211 (1) 1:11
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5  W  walking (1) 50:16 wants (1) 44:9 warning (4) 29:2;37:2,21;38:2 watched (2) 41:21;42:16 watching (1) 2:7 way (5)	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41) 4:5;8:3,6;16:3;21:2; 23:10,14;24:4,17;26:15,16; 30:21;32:2;37:14;40:20; 51:15;52:1,4,9,13,17;53:1, 7,13,15,18;54:8,12,17,21; 55:10;56:15;59:1,9;64:15, 19;65:1,4,14,17,19 word (2) 2:16;38:4 words (2) 8:15;64:16 work (1) 33:17 working (1)	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2; 52:18;53:5 15 (1) 34:12 152 (7) 6:4,8;7:1,9,15,16,20 154 (1) 66:9 155 (4) 37:13,14;38:8,10 156 (2)	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5 22 (33) 10:2;11:6,7;12:8;14:3,12; 20:5;21:8;22:3,5;23:9,10; 26:6;28:1;31:8;36:4,7,13, 14,20;37:1,20;38:3;39:11, 18;40:21;48:4;52:8,12,14; 55:19;57:7,8 22211 (1) 1:11 25 (1)
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5  W  walking (1) 50:16 wants (1) 44:9 warning (4) 29:2;37:2,21;38:2 watched (2) 41:21;42:16 watching (1) 2:7 way (5) 12:16;38:5;39:20,21;	Wikileaks (9)     30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2)     15:16;25:9 wiped (1)     50:1 Wire (1)     61:21 within (11)     30:1;31:12;36:12;37:19;     39:15;40:12,15,17,21;     56:20;58:5 WITNESS (41)     4:5;8:3,6;16:3;21:2;     23:10,14;24:4,17;26:15,16;     30:21;32:2;37:14;40:20;     51:15;52:1,4,9,13,17;53:1,     7,13,15,18;54:8,12,17,21;     55:10;56:15;59:1,9;64:15,     19;65:1,4,14,17,19 word (2)     2:16;38:4 words (2)     8:15;64:16 work (1)     33:17 working (1)     29:11	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2; 52:18;53:5 15 (1) 34:12 152 (7) 6:4,8;7:1,9,15,16,20 154 (1) 66:9 155 (4) 37:13,14;38:8,10 156 (2) 28:17,19	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5 22 (33) 10:2;11:6,7;12:8;14:3,12; 20:5;21:8;22:3,5;23:9,10; 26:6;28:1;31:8;36:4,7,13, 14,20;37:1,20;38:3;39:11, 18;40:21;48:4;52:8,12,14; 55:19;57:7,8 22211 (1) 1:11 25 (1) 63:7
21;42:16;43:3;45:21 videos (4) 40:18;41:1,12,12 viewed (6) 30:6;62:14,20;64:16; 65:5,12 views (2) 30:4;65:11 virtual (1) 37:9 VOLUME (2) 1:1;53:2 VS (1) 1:5  W  walking (1) 50:16 wants (1) 44:9 warning (4) 29:2;37:2,21;38:2 watched (2) 41:21;42:16 watching (1) 2:7 way (5)	Wikileaks (9) 30:18;50:8;62:20;63:2,9; 64:13;65:3,5,18 windows (2) 15:16;25:9 wiped (1) 50:1 Wire (1) 61:21 within (11) 30:1;31:12;36:12;37:19; 39:15;40:12,15,17,21; 56:20;58:5 WITNESS (41) 4:5;8:3,6;16:3;21:2; 23:10,14;24:4,17;26:15,16; 30:21;32:2;37:14;40:20; 51:15;52:1,4,9,13,17;53:1, 7,13,15,18;54:8,12,17,21; 55:10;56:15;59:1,9;64:15, 19;65:1,4,14,17,19 word (2) 2:16;38:4 words (2) 8:15;64:16 work (1) 33:17 working (1)	31:14 106,000 (1) 14:21 11 (1) 24:12 12 (4) 4:2;42:11,17;43:2 12:00 (1) 67:10 123.123.12 (1) 11:16 139 (8) 36:11,18,18;49:10;51:16; 52:6,11;54:14 149 (4) 5:16;6:16,18,20 149,000 (6) 22:4;23:17;48:14;49:2; 52:18;53:5 15 (1) 34:12 152 (7) 6:4,8;7:1,9,15,16,20 154 (1) 66:9 155 (4) 37:13,14;38:8,10 156 (2)	61:12 20 (4) 60:10;61:11;63:4,11 2009 (3) 10:2;45:20;46:2 2010 (16) 10:3;14:17;22:2,12,12; 23:8;28:2;31:19;34:10,13, 18;35:2;42:11;54:15;62:19; 63:11 2013 (5) 1:16;4:2;5:12,15;59:19 20th (3) 17:8;62:19;63:18 21 (1) 59:19 210-9 (1) 58:5 22 (33) 10:2;11:6,7;12:8;14:3,12; 20:5;21:8;22:3,5;23:9,10; 26:6;28:1;31:8;36:4,7,13, 14,20;37:1,20;38:3;39:11, 18;40:21;48:4;52:8,12,14; 55:19;57:7,8 22211 (1) 1:11 25 (1)

PFC Bradley E. Manning	0/20/13 Altei	rnoon Session	June 20, 2013
1:16 <b>27</b> (1)	19:12,13 <b>806 (1)</b>		
34:10 <b>28</b> (1)	60:20 <b>87 (2</b> )		
27:7	62:10,16		
3	9		
3 (9) 6:8;7:1;22:12;26:6;27:9; 28:15;34:17;59:21,21 30 (5) 22:2,5;23:7;24:9;60:6 30th (3) 17:9;25:18,19 3rd (3) 28:2,10;34:13	9 (3) 5:12;22:11;34:7 9.9 (1) 15:1 9th (1) 18:2		
4			
4 (1) 14:13 4:00 (1) 61:4 4:04 (1) 61:13 40 (13) 10:2;11:6,8;12:8;14:3,12; 20:5;21:8;23:9;31:11,12; 48:4;55:20 44 (1) 4:7			
5			
55 (2) 4:6,7 550 (1) 59:18			
6	_		
64 (7) 30:18,20,21;31:1,6,10,15 641 (3) 27:7,9,15 6th (1) 17:13			
7	-		
7 (2) 34:17;35:1 79 (1) 5:12 7th (1) 14:18			
8			
8 (2) 4:6;22:20 80 (2)			
7.51			(=0) 4= 0.3